

OCCUPATIONAL SURVEY REPORT 3 AD A 0 3 8 5 0 CONTINUOUS PHOTOPROCESSING/PHOTOPROCESSING CONTROL CAREER LADDERS AFSCs 23330, 23350, 23370, 23331, 23371, and 23391 AFPTs 90-233-235 and 90-233-236 31 MARCH 1977 OCCUPATIONAL SURVEY BRANCH USAF OCCUPATIONAL MEASUREMENT CENTER LACKLAND AFB TEXAS 78236 APPROVED FOR PUBLIC RELEASE; DISTRIBUTION UNLIMITED

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#### PREFACE

This report presents the results of a detailed Air Force Occupational Survey of the Continuous Photoprocessing/Photoprocessing Control career ladders, AFSCs 23330, 23350, 23370, 23331, 23371, and 23391. The project was directed by USAF Program Technical Training, Volume 2, dated October 1975. Authority for conducting specialty surveys is contained in AFR 35-2. Computer outputs from which this report was produced are available for use by operating and training officials.

The survey instrument was developed by Captain Loretta Lee, Inventory Development Specialist. Captain Leon J. Tauscher analyzed the survey data and wrote the final report. This report has been reviewed and approved by Major Stanley D. Stephenson, Chief, Officer Survey Management Applications Section, USAF Occupational Measurement Center, Lackland AFB, Texas 78236.

Computer programs for analyzing the occupational data were designed by Dr. Raymond E. Christal, Occupational and Manpower Research Division, Air Force Human Resources Laboratory (AFHRL), and were written by the Project Analysis and Programming Branch, Computational Sciences Division, AFHRL.

Because volume reproduction of this report is not feasible, distribution is made on a loan basis to air staff sections and major commands upon request to the USAF Occupational Measurement Center, attention of the Chief, Occupational Survey Branch (OMY), Lackland AFB, Texas 78236.

This report has been reviewed and is approved.

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#### SUMMARY OF RESULTS

- 1. There were 678 members of the AFS 233X0/X1 career ladder who responded to the survey. This represents approximately 60 percent of the assigned manning.
- 2. Compared to other USAF fields, AFS 233XX personnel reported their jobs being slightly less interesting and utilizing their training slightly less. However, their reenlistment intentions as a group were noticeably higher than for other USAF fields.
- 3. Twenty-four job types were identified. Twenty of these were contained within four clusters, and the remaining four represented very unique jobs that did not cluster. The largest cluster contained 11 job types and 347 members who perform tasks related to black and white photoprocessing and printing. A second cluster contains four job types and 98 members who perform photoprocessing quality control tasks. The third cluster contains two job types and 67 members who perform color processing and printing functions. The fourth cluster contains three job types and 91 members who perform management and training functions. Two of the four unique job types perform motion picture assembly and printing tasks and contain only 17 members; one job type performs shelter maintenance functions; and the fourth one performs production control functions.
- 4. AFM 39-1 specialty descriptions of DAFSCs 23330/50/70 and DAFSCs 23331/71 provide good general coverage of most duties and tasks performed by continuous photoprocessing and photoprocessing control personnel. However, the AFM 39-1 job descriptions of each respective career ladder omit the duty of maintaining relocatable photographic facilities, which is performed by a substantial percentage of respondents in each specialty. There are also other tasks and duties performed by lesser but still substantial percentages of respondents in each career ladder which are not covered.
- 5. The work performed by continuous photoprocessing specialist/technician respondents in DAFSC 23330/50/70 primarily involves both black and white and color film processing and printing tasks in fixed and relocatable facilities. Conversely, the tasks performed by photoprocessing control specialist/technican DAFSC 23331/71 incumbents are basically those related to photoprocessing quality control functions. On the basis of DAFSC alone, the substantial dissimilarities in technical tasks performed provide little support for consolidation of ladders into a single ladder. However, on the basis of the job structure analysis, it is clear that the photoprocessing quality control functions in the AFS 233XX career ladders require further attention due to the fact that 38 percent of the incumbents performing these duties and tasks are AFS 233XO personnel.

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- 6. With increasing AFMS experience, in both career ladders there is an increase in the performance of supervisory and administrative duties and a decrease in time spent on technical duties. However, compared to DAFSC 233XO AFMS groups, the DAFSC 233X1 AFMS groups generally perform a larger average number of tasks, perform a broader range of tasks, and perform much more difficult tasks throughout their career enlistments.
- 7. In both AFS 233XO and AFS 233X1 career ladders, there were only small differences in duty and task performance for CONUS versus Overseas personnel. For DAFSC 233XO personnel, there were only small differences in duty and task performance for male versus female personnel. Only one AFS 233X1 respondent was female, so no sex comparisons could be made.
- 8. The STS for the AFS 233XO career ladder provides general coverage of the majority of tasks performed by 233XO personnel except for continuous color reproduction functions. Also, 35 job survey tasks are performed by ten percent or more personnel but are not specified in the STS. All the duties and tasks specified in the STS for the AFS 233Xl career ladder are being performed in the field. However, 106 tasks are performed by ten percent or more of DAFSC 23331/71 personnel but are not specified in the STS.

# OCCUPATIONAL SURVEY REPORT CONTINUOUS PHOTOPROCESSING/PHOTOPROCESSING CONTROL CAREER LADDER AFSCs 23330, 23350, 23370, 23331, 23371, 23391

#### INTRODUCTION

This is a report of an occupational survey of the Continuous Photo-processing/Photoprocessing Control career ladders, AFSC's 23330, 23350, 23370, 23331, 23371, and 23391 conducted by the Occupational Survey Branch, USAF Occupational Measurement Center, from January 1976 through March 1977.

The report describes: (1) development and administration of the survey instrument; (2) summaries of tasks performed by airmen grouped by skill level, experience level and similarity of tasks performed; (3) comparisons with current training and career field structure documents; and (4) recommended actions for further study.

#### INVENTORY DEVELOPMENT AND ADMINISTRATION

The data collection instrument for the occupational survey was USAF Job Inventory AFPTs 90-233-235 and 90-233-236. The inventory booklet was composed of two parts: a background information section in which job incumbents provided information about themselves; and a duty-task list section which assessed the relative amount of time spent on tasks performed in their current jobs. The latter section consisted of 717 tasks grouped under 24 headings. Thorough research of publications and directives, personal interviews with 24 subject-matter specialists at four bases, and written reviews from 102 experienced continuous photoprocessing and photoprocessing control personnel contributed to the development of the survey instrument.

Consolidated base personnel offices in operational units worldwide received the inventory booklets for administration to 1139 job incumbents holding the DAFSC's identified above. Survey administration occurred during June 1976 through September 1976 based upon the April 1976 Uniform Airman Record. Table 1 gives the distribution of assigned personnel in the career ladder as of August 1976 and the percentage, by major command, of inventory booklets returned from the field. The number of booklets represents 60 percent of career ladder members.

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After supplying identification and biographical information, incumbents checked and rated the tasks performed in their current job. Tasks were rated on a 9-point scale showing relative time spent on each task compared to all other tasks performed in the current job. The rating ranged from 1 (very-much-below-average time spent) through 5 (about-average time spent) to 9 (very-much-above-average time spent). Respondents only rated tasks they performed in their current jobs.

TABLE 1
COMMAND REPRESENTATION IN THE SURVEY SAMPLE

COMMAND		CENT AS 23331/	SIGNED 71 23391		23331/71	
MAC	5	4	8	8	8	5
PACAF	10	6	14	11	3	14
SAC	11	10	28	5	3	14
TAC	42	45	25	48	44	33
USAFE	20	16	14	16	16	19
OTHER	12	19	11	12	18	10

#### SUMMARY OF BACKGROUND INFORMATION

Each USAF job inventory contains a section for background data in which survey respondents provide biographical information about themselves and report their feelings and perceptions about their jobs. Table 2 summarizes background data collected relative to job interest, perceived utilization of training, and reenlistment intentions. For comparisons with other AF personnel, the last column to the right of Table 2 summarizes data collected on career ladders surveyed during 1975. Generally, the figures on background data for this survey of the Photoprocessing career ladders AFS 233XX are less favorable than those of the combined figures for the sample of career ladders surveyed in 1975. Compared to other USAF fields, AFS 233XX personnel reported their jobs being slightly less interesting and utilizing their training slightly less. This was relatively consistent regardless of time in service. Overall, 59 percent of the DAFSC 233XX personnel surveyed found their jobs interesting; 63 percent perceived their training as utilized fairly well or better; and 62 percent indicated they will probably reenlist.

Several interesting findings emerged from analysis of this background data. First, the job interest and perceived utilization of training data for DAFSC 233XO personnel in their first enlistment closely resembles the data for other Air Force career fields (last column in Table 2). Generally,

TABLE 2

JOB INTEREST, UTILIZATION OF TRAINING, AND REENLISTMENT INTENTION BY AFMS GROUPS

\* COMBINED DATA FROM 35 CAREER LADDERS SURVEYED IN 1975.

\*\* DATA ON UTILIZATION OF TRAINING WAS COMBINED WITH PERCEIVED UTILIZATION OF TALENTS IN 1975.

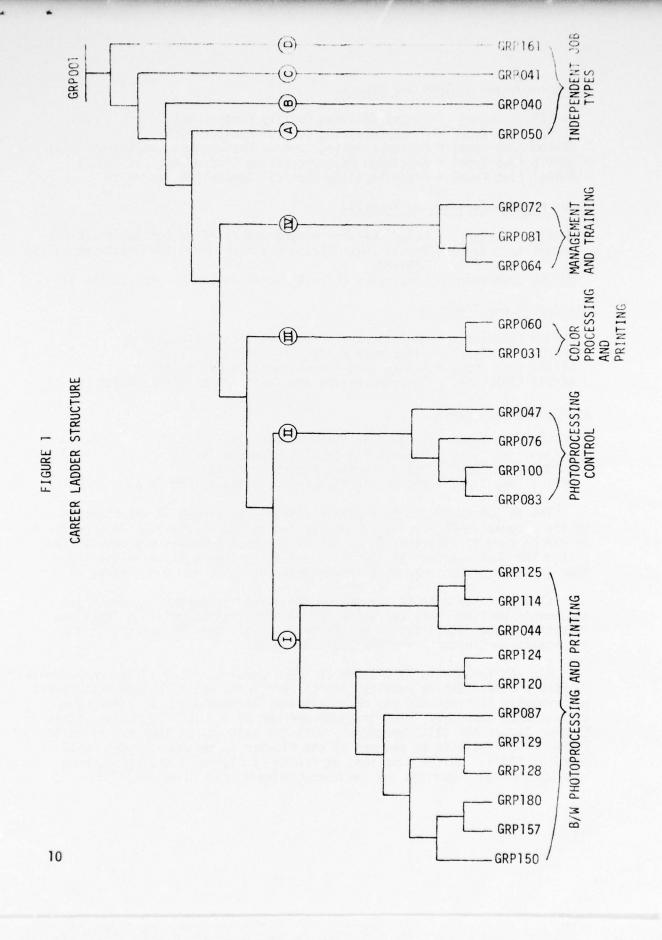
first term personnel differ considerably from longer term enlistment groups on these variables. Another interesting finding is that even though DAFSC 233XX personnel generally reported less job interest and less perceived utilization of their training, as a group their reenlistment intentions were noticeably higher than for other USAF fields. Sixty-two percent indicated they will probably reenlist. Finally, compared to DAFSC 233X1 personnel, the DAFSC 233X0 personnel generally felt their training was not being utilized as well throughout their careers.

#### CAREER LADDER STRUCTURE

The job structure of the Continuous Photoprocessing and Photoprocessing Control career ladders, AFS 233XX, was determined on the basis of similiarity of the survey tasks performed and the time spent on those tasks by respondents. In the process of career ladder structure analysis the computer compares tasks performed and the time spent on the tasks by each person in the survey sample. Individuals with the greatest similiarity in job performance are placed in the same group. Groups with the highest degree of overlap form job types; similar job types are combined into clusters. The 20 job types which constitute four clusters and the four independent job types which form the Continuous Photoprocessing and Photoprocessing Control career ladder structure are depicted in a hierarchical grouping in Figure 1. These job types and clusters are listed below by group number, the kind of group, functional title, and number of members in the group. A detailed description of background characteristics and representative duties and tasks for each job-type group is located in Appendix A.

# Black and White Photoprocessing and Printing

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## Photoprocessing Quality and Control

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GRP021 (Cluster) = Photoprocessing Quality Control Specialist (N=98) GRP083 (Job Type) = Photoprocessing Control Analyst (N=50) GRP100 (Job Type) = Photoprocessing Control Measurement Specialist (N=9) GRP076 (Job Type) = Precision Photoprocessing Control Analyst (N=11) GRP047 (Job Type) = Fixed Facility Chemical Specialist (N=22)
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## Color Photoprocessing and Printing

### Management and Training

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GRP038 (Cluster) = Management and Training Technician (N=91)
GRP064 (Job Type) = Fixed Film Processing Supervisor (N=55)
GRP081 (Job Type) = Mobile Film Processing Supervisor (N=13)
GRP072 (Job Type) = Photoprocessing and Control Instructor (N=13)
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## Independent Job Types

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GRP050 (Job Type) = Production Control Specialist (N=10)
GRP040 (Job Type) = Relocatable Facility Monitor (N=15)
GRP041 (Job Type) = Motion Picture Assembler (N=11)
GRP161 (Job Type) = MAC Motion Picture Print Specialist (N=6)
```

The 24 job types and four clusters should be viewed in relationship to the diagram in Figure 1 and the detailed group descriptions in Appendix A. As can be seen in Figure 1, 20 of the 24 job-type groups are accounted for within the four clusters (I, II, III, and IV in Figure 1), with the other four job-type groups remaining independent (A, B, C, and D in Figure 1).

Cluster I contains 52 percent of the survey respondents. These job incumbents perform black and white photoprocessing and printing functions in either fixed facilities or mobile facilities. Over 95 percent of the incumbents in Cluster I are AFS 233XO personnel.

The job incumbents in Cluster II (14.5 percent of the survey respondents) perform photoprocessing quality control functions, which include measurement and analysis of processes and materials and implementation of corrective actions when necessary. Thirty-eight percent of the job incumbents within Cluster II are AFS 233X0 personnel, with the majority of them having DAFSC 23350. The remaining 62 percent of the Cluster II incumbents have DAFSC 23331 or 23371. Unlike functions performed by Cluster I job types, most quality control functions are performed primarily in fixed facilities.

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Cluster III contains ten percent of the survey respondents. Ninety-eight percent of these incumbents have DAFSC 23350 or 23370, and they primarily process and print color film in fixed facilities.

Management and training functions are performed by the job incumbents in Cluster IV (13.5 percent of the survey respondents). While supervisory functions are also performed by some individuals in other clusters, the managers and supervisors in this cluster perform very few specialty tasks other than supervisory. The instructor job type (GRP072) in Cluster IV contains both technical school instructors and unit level trainers/instructors.

In addition to the four clusters discussed above, four independent job types (accounting for six percent of the survey respondents) were identified. GRP050 (Production Control Specialist) contains ten persons with an average grade of E-5. These incumbents perform an average of only 17 tasks, most of which are associated only with production control functions. GRP040 (Mobile Facility Monitor) contains 15 members who primarily monitor, maintain, and control relocatable facilities. GRP041 (Motion Picture Assembler) contains 11 members and GRP161 (MAC Motion Picture Print Specialist) contains six members who perform motion picture printing, assembling, and distribution functions. Eighty-six percent of these motion picture personnel are from Military Airlift Command.

The photoprocessing quality control functions being performed by incumbents identified in Cluster II require further attention because 38 percent of the personnel performing those duties and tasks have DAFSC 233XO. This is especially important considering that each of the four job types constituting Cluster II contains DAFSC 233XO personnel, even GRP076 (Precision Photoprocessing Control Analyst) which is the most highly technical and precise photoprocessing control job identified in the analysis. The high numbers of AFS 233XO personnel who are performing quality control only emerges here in the structure analysis, and not in DAFSC or AFMS group analyses. One reason is that 506 survey respondents have DAFSC 2335O or DAFSC 2337O, but only 37 of them (constituting 38 percent of Cluster II) perform primarily quality control functions.

ANALYSIS OF AFM 39-1 JOB DESCRIPTIONS AND DAFSC GROUPS

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# Analysis of AFM 39-1 Job Description

For the analysis of DAFSC groups, a comparison was made between the job descriptions compiled from survey data and the specialty descriptions in AFM 39-1. For the most part the AFM 39-1 specialty descriptions for the 233XX career ladders provide general coverage for most of the tasks and duties

accomplished by continuous photoprocessing and photoprocessing control specialists and technicians. However, in each of the respective AFM 39-1 job descriptions, there are several duties that are not covered but that are being performed in the field.

For the AFM 39-1 job descriptions of DAFSCs 23330/50/70, the largest discrepancy is the omission of tasks involving maintaining relocatable photographic facilities (Duty G). The 3-, 5-, and 7-skill level personnel spent 19, 12, and four percent of their time, respectively, performing such tasks. Further, the DAFSC 233XO incumbents reported performing the following types of duties which are not specified in AFM 39-1 (see Table 3 for DAFSC percentages): Operating Copy Cameras (Duty H), Maintaining Quality Control (Duty P), Performing Sensitometry and Densitometry Tests (Duty U), and Producing Chemical Mixes and Performing Chemical Analysis (Duty W).

The AFM 39-1 job description for DAFSCs 23331/71 also omits mention of maintaining relocatable photographic facilities. The 3- and 7-skill level personnel in this specialty spent eight and three percent of their time, respectively, performing these tasks. Other AFM 39-1 omissions for DAFSC 23331/71 personnel include the following types of duties (see Table 3 for DAFSC percentages): Processing Black and White Materials by Continuous Methods (Duty I), Processing Color Materials by Continuous Methods (Duty J), Printing Black and White Materials by Continuous Methods (Duty K), Printing Color Materials by Continuous Methods (Duty L), Exposing, Processing, and Finishing Color Prints Manually (Duty R), Editing and Cleaning Processed Imagery (Duty F), and Titling Processed Imagery (Duty T). While the percent time spent in each respective duty is relatively low (except for Duties G and I), DAFSC 23331 personnel spend 31 percent of their time and DAFSC 23371 personnel spend 15 percent of their time performing these duties.

## Analysis of DAFSC Groups

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Table 3 shows the time spent by DAFSC groups of the 233XX career ladders performing tasks within each of the 24 duty categories contained in the survey. The duties in Table 3 are separated on the basis of relatively high versus relatively low percent time spent by DAFSC groups. The most dominant duty reported by the 44 members of DAFSC 23330 is Duty I, Processing Black and White Material by Continuous Methods, which consumes 43 percent of their time. Another 38 percent of their time is spent performing tasks from four other duties: Duty G, Maintaining Relocatable Photographic Facilities (19 percent); Duty O, Exposing, Processing, and Finishing BW Prints Manually (11 percent); Duty T, Titling Processed Imagery (four percent); and Duty K, Printing Black and White Material by Continuous Methods (four percent).

The 408 DAFSC 23350 job incumbents spend 57 percent of their time performing four major duties: Duty I, Processing Black and White Materials by Continuous Methods (25 percent); Duty G, Maintaining Relocatable Photographic

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PERCENT TIME SPENT ON DUTIES BY DAFSC GROUPS TABLE 3

DEBCENT TIME SPENT	DAFSC DAFSC DAFSC DAFSC DAFSC DAFSC 23330 23350 23370 23331 23371 23391 (N=44) (N=408) (N=98) (N=40) (N=62) (N=21)		 * * * 8 3 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	FUNCTIONS 2 2 5 * 3 3 1 1 1 2 4 8 3	43 25 9 9 5	* 10 7 3 2 *	11 10 5	*	* 3 2 20	× -			-	) *	INTINUOUS 4 4 3 2 1	**	_	* -	-	* *	
	INVENTORY SECTION	DUTIES WITH FIVE PERCENT OR MORE TIME SPENT:		PERFORMING LABORATORY PRODUCTION CONTROL MAINTAINING RELOCATABLE PHOTOGRAPHIC FACI PROCESSING REACK AND WHITE MATERIALS RY	CONTINUOUS METHODS  1 PROCESSING COLOR MATERIALS BY CONTINUOUS	PROCESSING, AND F	MANUALLY	P. MAINTAINING QUALITY CONTROL		CHEMICAL MIXES AND PERFORMING	ANALYSIS	DUILES WITH LESS THAN FIVE PERCENT TIME SPENT	E. PERFORMING PHOTOPROCESSING LABORATORIES ADMINISTRATION FUNCTIONS	OPERATING COPY CAMERAS	K. PRINTING BLACK AND WHITE MATERIALS BY CONTINUOUS METHODS	L. PRINTING COLOR MATERIALS BY CONTINUOUS ME	M. PROCESSING BLACK AND WHITE FILM MANUALLY		R. EXPOSING, PROCESSING, AND FINISHING COLOR PRINTS	MANUALLY T TITLING PROCESSED IMAGERY	Y CONTROLLING CLEAN DOOM AND ENVIDONMENT

\* = LESS THAN ONE (1) PERCENT TIME SPENT

Facilities (12 percent); Duty O, Exposing, Processing, and Finishing BW Prints Manually (ten percent); and Duty J, Processing Color Materials by Continuous Methods (ten percent). Another 22 percent of their time is spent performing tasks from the following duties: seven percent Directing and Implementing (Duty B), five percent Producing Chemical Mixes and Performing Chemical Analysis (Duty W), four percent Printing Black and White Materials by Continuous Methods (Duty K), three percent Titling Processed Imagery (Duty T), and three percent Editing and Cleaning Processed Imagery (Duty S).

Table 3 clearly shows that DAFSC 23330 and DAFSC 23350 personnel perform basically the same duties, except that 5-skill level personnel Process Color Materials by Continuous Methods (Duty J) and Produce Chemical Mixes and Perform Chemical Analysis (Duty W). Likewise, Table 4 shows that the most time-consuming tasks representing the jobs being performed by the DAFSC 23330 and DAFSC 23350 incumbents are almost identical. The only substantial differences are that relatively twice as many 3-skill level personnel perform each task as 5-skill level personnel do and they also spend relatively twice as much time on each task. But for both these groups, most tasks being performed by a majority of members deal primarily with operating and caring for continuous photo processors and with the care and maintenance of relocatable facilities. Conversely, Table 5 shows that there are some clear distinctions between DAFSC 23330 and DAFSC 23350 personnel. Whereas higher percentages of DAFSC 23330 personnel perform care and maintenance tasks on relocatable facilities and continuous photoprocessing equipment, the 5-skill level personnel spend relatively higher percentages of their time performing basic supervisory duties, storing and transferring chemicals, and operating color processors.

There is very little functional overlap between the duties and tasks performed by DAFSC 23350 incumbents and DAFSC 23331 respondents. Table 3 shows that the DAFSC 23350 personnel spend 47 percent of their time Processing Black and White Materials by Continuous Methods (Duty I), Maintaining Relocatable Photographic Facilities (Duty G), and Processing Color Materials by Continuous Methods (Duty J). Conversely, the DAFSC 23331 respondents spend 49 percent of their time Performing Sensitometry and Densitometry Tests (Duty U), Producing Chemical Mixes and Performing Chemical Analysis (Duty W), and Maintaining Quality Control (Duty P). The tasks which most clearly differentiate these two groups are consistent with these differences in duties. One other major difference, however, is that DAFSC 23331 personnel perform an average of 124 tasks versus an average of 88 tasks being performed by DAFSC 23350 personnel. Table 6 lists several representative tasks being performed by DAFSC 23331 personnel that overlap considerably with DAFSC 23350 personnel. As can be seen, these high overlap tasks occur in Duty I, Processing Black and White Materials by Continuous Methods.

For both career ladders, AFS 233X0 and 233X1, the transistion from specialist (3- and 5-skill level) to technician/supervisor (7-skill level) marks a major change in task performance. As shown in Table 3, the DAFSC 23370 respondents spend 45 percent of their time and the DAFSC 23371 personnel

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TABLE 4

НІСН	HIGH TIME-CONSUMING TASKS REPRESENTING THE JOBS PERFORMED BY BOTH 3- AND 5-SKILL LEVEL 233XO PERSONNEL	AND 5-SKILL	LEVEL 233X0	PERSONNE	
		PERCENT P	PERCENT PERFORMING		PERCENT
TASK NO.	TASK	3-SKILL	5-SKILL	3-SKILL	9-SK1LL
620	PERFORM SHELTER CORROSION CONTROL PROCEDURES	89	38	1.34	69.
65	CLEAN SHELTERS	89	43	1.29	17.
119	INSPECT, CLEAN OR LOAD BW FILM MAGAZINES	89	41	1.26	.72
F6	LOG IN WORK ORDERS OR COMPLETED WORK	18	36	1.24	.73
163	WIPE DOWN BW PROCESSORS	70	51	1.23	.73
91	CLEAN BW PROCESSING ROOMS	99	48	1.21	.67
142	SET OR MAINTAIN BW PROCESSOR TRANSPORT SPEEDS	99	41	1.16	.48
091	TURN ON BW PROCESSOR MAIN DRIVE	89	51	1.15	. 65
191	TURN ON CHEMICAL REPLENISHMENT FOR BW PROCESSORS	89	46	1.14	. 54
162	TURN ON WATER SUPPLY FOR BW PROCESSORS	89	20	1.13	.63
90	COMPARE AND FOCUS BW PRINTS USING PROJECTION PRINTERS	35	32	.43	.39
045	TURN ON MANUAL PRINT DRIERS	39	33	.37	.37

TABLE 5

TASKS WHICH MOST CLEARLY DISTINGUISH BETWEEN 23330 AND 23350 PERSONNEL

		PERCENT P	PERCENT PERFORMING	
TASK NO.	TASK	DAFSC 23330	DAFSC 23350	DIFFERENCE
89	CLEAN SHELTER PROCESSOR RACKS	19	56	35
620	PERFORM SHELTER CORROSION CONTROL PROCEDURES	89	38	30
630	PREPARE PROCESSORS FOR USE OR TRANSPORT	59	59	30
142	SET OR MAINTAIN BW PROCESSOR TRANSPORT SPEEDS	99	40	56
65	CLEAN SHELTERS	89	43	25
129	PERFORM CORROSION CONTROL ON BW PROCESSING EQUIPMENT	64	39	52
137	RINSE BW PROCESSOR ROLLERS OR RACKS AFTER SHUT DOWN	99	43	23
139	SET OR MAINTAIN BW CHEMISTRY REPLENISHER RATES	19	39	22
17	CLEAN BW PROCESSOR ROLLERS	89	47	21
163	WIPE DOWN BW PROCESSORS	17	51	20
B32	ORIENT NEWLY-ASSIGNED PERSONNEL	=	32	-21
05	CONDUCT ON-THE-JOB TRAINING	Ξ	32	-21
80	DEMONSTRATE OPERATION OF EQUIPMENT	20	38	-18
F6	LOG IN WORK ORDERS OR COMPLETED WORK	18	36	-18
851	SUPERVISE APPRENTICE CONTINUOUS PHOTOPROCESSING			
	SPECIALISTS (AFSC 23330)	9	22	-16
W54	STORE UNMIXED CHEMICALS	2	91	-14
M56	TRANSFER CERTIFIED MIXED CHEMISTRY TO STORAGE TANKS	2	14	-12
374	TURN ON COLOR PROCESSOR MAIN POWER	2	14	-12
375	TURN ON COLOR PROCESSOR WATER SUPPLY	4	16	-12

TABLE 6

REPRESENTATIVE TASKS PERFORMED\*BY DAFSC 23331 PERSONNEL WHICH HAVE HIGH OVERLAP WITH DAFSC 23350 PERSONNEL

TASK NO.	TASK	PERCENT PERFORMING
	CLEAN BW PROCESSOR ROLLERS	20
	CLEAN BW PROCESSORS USING SYSTEM CLEANERS	23
111	CORRECT BW FILM PHYSICAL DEFECTS	22
	DRAIN BW PROCESSOR CHEMICAL TANKS	25
	DRAIN OR REFILL BW PROCESSOR WASH TANKS	25
	FILL PROCESSOR CHEMICAL TANKS WITH BW CHEMISTRY	30
	LOG INCOMING BW FILM MISSIONS	28
	PERFORM CORROSION CONTROL ON BW PROCESSING EQUIPMENT	23
	PREPARE BW MISSION CONTROL AND INSPECTION DOCUMENTS	23
	RINSE BW PROCESSOR ROLLERS OR RACKS AFTER SHUT DOWN	20
	SET OR MAINTAIN BW PROCESSOR DRYER TEMPERATURE AND HUMIDITY	25
	TURN OFF BW PROCESSOR DRYERS	23
	TURN OFF BW PROCESSOR DRYER HEATERS	23
	TURN OFF BW PROCESSOR MAIN DRIVES	23
	TURN ON BW PROCESSOR CHEMICAL RECIRCULATION PUMPS	25
	TURN ON BW PROCESSOR DRYERS AND ADJUST TEMPERATURE CONTROLS	23
	TURN ON BW PROCESSOR DRYER HEATERS	23
	TURN ON BW. PROCESSOR MAIN POWER	23
	TURN ON BW PROCESSOR MAIN DRIVE	23

spend 49 percent of their time performing supervisory and administrative tasks (Duties A, B, C, D, E, and F). In contrast, the DAFSC 23350 incumbents spend 86 percent and the DAFSC 23331 respondents spend 81 percent of their time performing non-supervisory duties. However, the 7-skill level personnel in both ladders continue to perform a considerable number of technical tasks.

The 7-skill level personnel in both ladders of AFS 233XX reported spending almost 50 percent of their time performing basically the same supervisory and administrative tasks and duties. Tables 7 and 8 contain tasks representative of the jobs being performed by DAFSC 23370 and DAFSC 23371 incumbents. An appreciable distinction between the 7-skill level groups is that DAFSC 23370 incumbents perform primarily photoprocessing and printing specialty tasks while DAFSC 23371 incumbents perform primarily photoprocessing control specialty tasks. Also notable is that DAFSC 23370 perform a larger variety of specialty tasks related to a larger number of duties, but spend less time per tasks. This is illustrated well by taking the four most time-consuming specialty duties for each 7-skill level groups (from Table 3). DAFSC 23370 incumbents spend only 24 percent of their time performing the 230 tasks in Duties I, J, O, and G while DAFSC 23371 incumbents spend 37 percent of their time performing the 181 tasks in Duties W, U, P, and I. One final distinction is that Duty V, Performing Image Evaluation, is unique to DAFSC 23371 personnel. As shown in Table 9, only seven tasks within this duty are performed by an appreciable number of incumbents, and then by only a small percentage of them. However, those DAFSC 23371 members performing image evaluation tasks spend considerable time doing so.

The transition from technician/supervisor (7-skill level) to superintendent (9-skill level) marks another significant change in task performance. Whereas 7-skill level personnel in both career ladders spend about half their time performing supervisory/administrative duties and the other half performing specialty tasks and duties, superintendents spend 97 percent of their time performing supervisory/administrative tasks (Duties A, B, C, D, E, and F). Table 10 compares DAFSC 23370 incumbents with DAFSC 23391 incumbents and Table 11 compares DAFSC 23371 incumbents with DAFSC 23391 incumbents with respect to percent members performing supervisory and managerial tasks. It is clear that superintendents perform very high level, long range, broad, and conceptual supervisory and managerial tasks related to establishing and evaluating requirements, planning functions and goals, and insuring compliance with high level goals and objectives. The 7-skill level personnel from both career ladders direct, implement, and in general perform those tasks designated to carry out actions necessary to meet broad policies, goals, and objectives.

A general comparison between career ladders 233X0 and 233X1 (DAFSC 23391 personnel were removed from the 233X1 sample for this analysis) indicates that each career ladder spends the majority of their time performing very different duties, as clearly shown in Table 3. Of the most time-consuming duties performed by each career ladder, compatible overlap occurs in only one duty, Directing and Implementing (Duty B). As shown in Table 12, there are six duties that are being performed by less than one percent of the

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TABLE 7

REPRESENTATIVE TASKS PERFORMED BY DAFSC 23370 JOB INCUMBENTS

TASK NO.	TASK	PERCENT PERFORMING	PERCENT TIME SPENT
18	ASSIGN DUTIES TO PERSONNEL	75	1.62
85	COUNSEL SUBORDINATES ON PERSONAL PROBLEMS	89	96.
03	BRIEF PERSONNEL ON CHANGES IN METHODS OR PROCEDURES	99	1.12
60	EVALUATE PERSONNEL PERFORMANCE	63	1.58
A25	PLAN WORK ASSIGNMENTS	57	1.08
A5	ESTABLISH PERFORMANCE STANDARDS	47	.61
191	TURN ON CHEMICAL REPLENISHMENT FOR BW PROCESSORS	27	.20
041	SELECT LENSES FOR BW PROJECTION PRINTERS	24	.24
K23	THREAD BW MATERIALS ON CONTINUOUS PRINTERS	23	. 19
<b>E</b>	ADD CHEMICALS TO MIX TANKS	21	.17
173	THEN ON COLOR PROCESSOR MAIN DRIVE	10	17

TABLE 8

REPRESENTATIVE TASKS PERFORMED BY DAFSC 23371 JOB INCUMBENTS

TASK NO.	TASK	PERCENT PERFORMING	PERCENT TIME SPENT
	ASSIGN DUTIES TO PERSONNEL	65	.84
	EVALUATE PERSONNEL PERFORMANCE	28	1.27
	COUNSEL SUBORDINATES ON PERSONAL PROBLEMS	26	.78
	PLOT DATA FROM SENSITOMETRIC STRIPS	26	.67
	DIRECT MIXING OF CHEMICALS	55	.62
	PLAN QUALITY ASSURANCE STANDARDS	52	.58
	DETERMINE SOLUTION PH USING PH METERS	52	. 60
	DETERMINE GAMMA FROM SENSITOMETRIC STRIPS	52	.57
	ESTABLISH PERFORMANCE STANDARDS	20	.75
B3	CONDUCT INVENTORIES OF PHOTOGRAPHIC EQUIPMENT AND SUPPLIES	47	.73
	ANALYZE PROCESS CONTROL CHARTS FOR TRENDS TO DETERMINE CORRECTIVE		
	ACTION	45	. 54

TABLE 9

MAJOR IMAGE EVALUATION TASKS PERFORMED BY 23371 PERSONNEL

PERCENT TIME SPENT	06.88.83.89 88.83.89 88.83.89 88.89	3.91%
PERCENT PERFORMING	19 18 15 7 11	TOTAL TIME
TASKS	PERFORM IMAGE EVALUATION WITH MICROSCOPES MAKE MICROSCOPIC RESOLUTION EVALUATIONS MAKE SUBJECTIVE MICROSCOPIC IMAGE SHARPNESS EVALUATIONS PREPARE MICROSCOPES FOR IMAGE EVALUATIONS PERFORM IMAGE EVALUATION WITH COMPARATORS PREPARE AND MOUNT SAMPLES FOR OPTICAL EVALUATIONS MAKE MICROSCOPIC GRANULARITY EVALUATIONS	
TASK NO.	V118 V20 V17 V13	

TABLE 10

MOST SIGNIFICANT TASKS DIFFERENTIATING DAFSC 23370 FROM 23391 PERSONNEL

TASK NO.	TASK	PERCENT DAFSC 23370	PERCENT PERFORMING DAFSC DAFSC 23370 23391	DIFFERENCE
88		25	10	42
05 854	CUNDUCT UN-THE-JUB TRAINING SUPERIORS (AFSC 23331) SUPERVISE CONTINUOUS PHOTOPROCESSING SPECIALISTS (AFSC 23331)	59 59	14 24	35
D20 B51	MAINTAIN TRAINING RECORDS SUPERVISE APPRENTICE CONTINUOUS PHOTOPROCESSING SPECIALISTS	51	24	27
	(AFSC 23331)	35	10	25
F11	LOG IN WORK ORDERS OR COMPLETED WORK PREPARE COMPLETED WORK FOR DISTRIBUTION	35 25	20	25.25
A6	ESTABLISH PERSONNEL MANNING REQUIREMENTS	18	28	-63
25	EVALUALE ACCUMPLISHMENT OF ASSIGNMENTS	o <	6/	200
A1	CONSTRUCT ORGANIZATION OR FUNCTIONAL CHARTS	22	) [ [	-33
90	ATE J	14	62	-48
A21	PLAN QUALITY ASSURANCE STANDARDS	20	29	-47
A16	PLAN INSPECTION ROUTINES	21	29	94-
A22	PLAN SAFETY PROCEDURES	91	57	-41
C14	EVALUATE TRAINING PROGRAMS	31	72	-41
65	EVALUATE CONTROL OF CLASSIFIED MATERIALS	6	43	-34
A4	ESTABLISH EQUIPMENT REQUIREMENTS	34	29	-33
A18	PLAN LAYOUT OF FACILITIES	22	52	-30

TABLE 1

REPRESENTATIVE TASKS DIFFERENTIATING BETWEEN DAFSC 23371 AND 23391

DIFFERENCE	33 33 33 33 34 15 15 12 13	-60 -57 -51 -51 -48 -46 -45 -45
PERCENT PERFORMING DAFSC DAFSC 23371 23391	24 23 24 23 23 24 24	81 72 72 67 67 57 57 72 76
PERCENT P DAFSC 23371	55 44 50 45 16 29 37 37	21 16 16 16 15 31 31 31 31
0.	DIRECT MIXING OF CHEMICALS DEMONSTRATE OPERATION OF EQUIPMENT DIRECT CONSTRUCTION OF SENSITOMETRIC CURVES DIRECT PREPARATION OF SENSITOMETRIC STRIPS DIRECT QUALITY ASSURANCE PROCEDURES OR FUNCTIONS ADMINISTER RESIDENT COURSE OR PHASE TESTS CONDUCT ON-THE-JOB TRAINING DIRECT PRINTING OPERATIONS SCORE RESIDENT COURSE OR PHASE TESTS MAINTAIN TRAINING RECORDS	ESTABLISH PERSONNEL MANNING REQUIREMENTS PREPARE JOB DESCRIPTIONS EVALUATE WORKLOAD REQUIREMENTS PREPARE PERSONNEL ACTION REQUESTS ESTABLISH BUDGET REQUIREMENTS EVALUATE BUDGET REQUIREMENTS PLAN AND CONDUCT POLICY OR MAINTENANCE MEETINGS EVALUATE JOB DESCRIPTIONS PLAN INSPECTION ROUTINES EVALUATE MAINTENANCE OF FACILITIES
TASK NO.	818 D8 B11 B21 B24 D1 D5 B22 D31	A6 B38 C15 C15 A2 C3 A12 C6 A22 A16

TABLE 12

COMPARISON OF THE LEAST TIME-CONSUMING DUTIES BY CAREER LADDER

		OX2XC	CAREER LADDER	ADDER 233X1	
1	DUTY	LESS THAN	3% OR LESS	LESS THAN	3% OR LESS
ш	PERFORMING PHOTOPROCESSING LABORATORIES ADMINISTRATION FUNCTIONS	*			2%
Ŧ	OPERATING COPY CAMERAS	*		*	
نـ	PRINTING COLOR MATERIALS BY CONTINUOUS METHODS	*		*	
Σ	PROCESSING BLACK AND WHITE FILM MANUALLY		2%	*	
ż	PROCESSING COLOR FILM MANUALLY	*		*	
6.	EXPOSING FILM	*		*	
æ.	EXPOSING, PROCESSING, AND FINISHING COLOR PRINTS MANUALLY	*		*	
S	EDITING AND CLEANING PROCESSED IMAGERY		2%	*	
Ŀ.	TITLING PROCESSED IMAGERY		3%	*	
٧.	PERFORMING IMAGE EVALUATION	*			8
×	CONTROLLING CLEAN ROOM AND ENVIRONMENT	*		*	
	TOTAL NUMBER DUTIES	8	m	6	2

personnel in each respective career ladder. These duties are Operating Copy Cameras (Duty H), Printing Color Materials by Continuous Methods (Duty L), Processing Color Film Manually (Duty N), Exposing Film (Duty Q), Exposing, Processing, and Finishing Color Prints Manually (Duty R), and Controlling Clean Room and Environment (Duty X). Table 12 lists five other major duties that consume less than three percent of the time spent by incumbents in each respective career ladder.

## ANALYSIS OF ACTIVE FEDERAL MILITARY SERVICE (AFMS) GROUPS

Task performance comparisons in this section are made between groups of DAFSC 233XO personnel and DAFSC 233X1 personnel with varying amounts of active federal military service (AFMS). Analysis of the changes in jobs performed by personnel in each respective career ladder with respect to time in service parallel job changes that were noted with DAFSC skill upgrading. However, where changes in tasks performed associated with skill upgrading were abrupt, the transition between enlistment periods is much more gradual. Incumbents gradually move away from performing strictly technical tasks to performing more supervisory tasks with increasing time in service. Table 13 (DAFSC 233XO job incumbents) and Table 14 (DAFSC 233X1 job incumbents) list the percent time spent on each duty for groups of personnel with varying amounts of active duty time ranging from 1-48 months to more than 240 months. Because DAFSC 233X1 personnel cross-train into that career ladder after they have attained a 5-skill level in DAFSC 233XO, Table 14 contains varying amounts of active duty time ranging from 49 - 96 months to more than 240 months. As expected, in both career ladders the most striking trend is an increase in the performance of supervisory and administrative duties and a decrease in time spent on technical duties with increasing AFMS experience.

As shown in Table 13, first enlistment DAFSC 233X0 survey respondents spend 69 percent of their time performing five technical duties: 30 percent Processing Black and White Materials by Continuous Methods (Duty I), 15 percent Maintaining Relocatable Photographic Facilities (Duty G), 12 percent Exposing, Processing, and Finishing BW Prints Manually (Duty O), seven percent Processing Color Materials by Continuous Methods (Duty J), and five percent Printing Black and White Materials by Continuous Methods (Duty K). The shift from a preponderance of time spent in these technical duties to a preponderance of time spent in supervisory duties is quite gradual, with the first large change occurring in the fourth enlistment group (145 to 192 months AFMS). From that point on the emphasis continues to shift even more towards strict performance of supervisory and administrative duties and tasks. Individuals with more than 240 months AFMS spend 87 percent of their time performing strictly supervisory and managerial duties and tasks.

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TABLE 13

PERCENT TIME SPENT ON DUTIES BY AFMS GROUPS IN DAFSC 233X0

		1-48	96-64	97-144	145-192	193-240	240 +
-	INVENTORY SECTION	Months	Months	Months	Months	Months	Months
A	ORGANIZING AND PLANNING	-	2	2	7	14	20
8	DIRECTING AND IMPLEMENTING	m	, ∞	12	22	20	39
ن	EVALUATING	*	2	က	9	7	=
0	TRAINING	7	က	4	7	œ	10
نن ن	PERFORMING PHOTOPROCESSING LABORATORIES						
	ADMINISTRATION FUNCTIONS	*		_	2	4	n
ı.	PERFORMING LABORATORY PRODUCTION CONTROL						
	FUNCTIONS	2	m	8	2	4	4
G.	MAINTAINING RELOCATABLE PHOTOGRAPHIC						
	FACILITIES	15	10	8	7	2	_
Ŧ	OPERATING COPY CAMERAS	-	-	_	-	-	_
ï	PROCESSING BLACK AND WHITE MATERIALS BY						
	CONTINUOUS METHODS	30	25	22	12	7	_
٦.	PROCESSING COLOR MATERIALS BY CONTINUOUS						
	METHODS	7	13	7	6	9	m
×	PRINTING BLACK AND WHITE MATERIALS BY						
		2	4	2	m	2	2
نہ	PRINTING COLOR MATERIALS BY CONTINUOUS						
		-	2	_		-	*
Σ	PROCESSING BLACK AND WHITE FILM MANUALLY	2	2	,-	,	1	*
ž	PROCESSING COLOR FILM MANUALLY	-	_	_	_	-	*
0.	EXPOSING, PROCESSING, AND FINISHING BW						
	PRINTS MANUALLY	12	6	6	m	9	_
ď	MAINTAINING QUALITY CONTROL	2	2	2		_	*
ò	EXPOSING FILM	-	_	2	_	_	*
В.	EXPOSING, PROCESSING, AND FINISHING COLOR						
	PRINTS MANUALLY	_	_	_	_	2	*
Ś	EDITING AND CLEANING PROCESSED IMAGERY	3	2	2	2	2	-
-	TILTING PROCESSED IMAGERY	4	3	3	2	-	2
	PERFORMING SENSITOMETRY AND DENSITOMETRY TESTS	n	2	m	2	2	*
>	PERFORMING IMAGE EVALUATION	*	*	*	*	*	*
×	PRODUCING CHEMICAL MIXES AND PERFORMING						
	CHEMICAL ANALYSIS	2	5	2	4	3	*
×	CONTROLLING CLEAN ROOM AND ENVIRONMENT	*	_	Э	*	*	_

\* = Less then one (1) percent performing

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For DAFSC 233X1 AFMS groups (Table 14) the majority of time is spent on technical duties during the first two enlistment periods (up to 96 months AFMS). From the third enlistment group on (97-144 months) the shift begins to become noticeable in the direction of greater supervisory duties. The fifth enlistment group marks the most distinctive shift from technical to strictly supervisory duties. The second enlistment group of DAFSC 233X1 personnel (49 to 96 months AFMS) spend 47 percent of their time performing three duties: 21 percent Performing Sensitometry and Densitometry Tasks (Duty U), 14 percent Producing Chemical Mixes and Performing Chemical Analysis (Duty W), and 12 percent Maintaining Quality Control (Duty P).

As shown in Table 15, compared to DAFSC 233XO AFMS groups the DAFSC 233X1 AFMS groups perform a larger average number of tasks during each of the first four enlistment periods. This difference indicates that DAFSC 233X1 personnel generally have a more diverse job and perform a broader range of tasks throughout their career enlistments.

#### COMPARISONS OF CONUS/OVERSEAS AND SEX GROUP TASK PERFORMANCE

There are small differences in both duty and task performance of CONUS and Overseas personnel in each respective career ladder. For DAFSC 233XO personnel, CONUS respondents spend 12 percent (versus four percent for Overseas groups) processing color materials by continuous methods (Duty J). Conversely, Overseas personnel in DAFSC 233XO spend 14 percent of their time (versus ten percent for CONUS groups) maintaining relocatable photographic facilities (Duty G) and 13 percent (versus nine percent for CONUS groups) exposing, processing, and finishing BW prints manually (Duty O). The differences in percent members performing tasks for these two groups support these differences in duties and are of low magnitude.

For DAFSC 233X1 personnel, CONUS vs Overseas job incumbents showed no significant or practical differences in duties or tasks performed. Differences in duties never exceeded six percent time spent. Differences in percent members performing tasks never exceeded 18 percent.

Since only one woman assigned DAFSC 233X1 was included in the sample, no sex comparisons were made for this career ladder. Analysis of duties and tasks performed by female versus male personnel in DAFSC 233X0 indicated no practical or significant differences between the sex groups.

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TABLE 14

PERCENT TIME SPENT ON DUTIES BY AFMS GROUPS IN DAFSC 233X1

	INVENTORY SECTION	49-96 Months	97-144 Months	145-192 Months	193-240 Months	240 + Months
A.	ORGANIZING AND PLANNING	-	4	2	17	21
В.		6	13	15	30	36
ن	EVALUATING	_	9	5	10	13
0	TRAINING	5	8	9	7	6
ui.	PERFORMING PHOTOPROCESSING LABORATORIES ADMINISTRATION					
	FUNCTIONS	*	*	2	2	<↑
u.	PERFORMING LABORATORY PRODUCTION CONTROL FUNCTIONS	-	_	_	4	4
e.		8	4	5	_	_
Ξ.	OPERATING COPY CAMERAS	_	*	*	*	*
i.	PROCESSING BLACK AND WHITE MATERIALS BY CONTINUOUS					
	METHODS	10	9	2	3	m
٦.	PROCESSING COLOR MATERIALS BY CONTINUOUS METHODS	*	က	က	_	_
×	PRINTING BLACK AND WHITE MATERIALS BY CONTINUOUS					
	METHODS	3	_	2	_	-
Ĺ,	PRINTING COLOR MATERIALS BY CONTINUOUS METHODS	*	*	*	*	*
Σ	PROCESSING BLACK AND WHITE FILM MANUALLY	_	_	_	*	*
ż	PROCESSING COLOR FILM MANUALLY	-	*	_	*	*
0	EXPOSING, PROCESSING, AND FINISHING BW PRINTS MANUALLY	2	2	2	_	*
<u>a</u>		12	11	80	4	2
0	EXPOSING FILM	_	_	_	*	*
æ		2	-	*	*	*
S		-	*	*	*	*
-			*	*	*	*
<u>.</u>	PERFORMING SENSITOMETRY AND DENSITOMETRY TESTS	21	16	16	7	2
>	PERFORMING IMAGE EVALUATION	2	*	9	2	*
3	PRODUCING CHEMICAL MIXES AND PERFORMING CHEMICAL ANALYSIS	14	21	17	9	<†

\* = Less than one (1) percent performing

TABLE 15

AVERAGE NUMBERS OF TASKS PERFORMED BY ENLISTMENT GROUPS

DAFSC 233X1		100	112	130	78	78
AVERAGE NUMBER OF T DAFSC 233X0	87	84	93	66	106	09
ENLISTMENT GROUP		2	m ·	4	. 22	+5

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#### TASK DIFFICULTY

From a listing of the assigned airmen identified for this survey, 7- and 9-skill level incumbents from various locations were selected for rating task difficulty. Tasks were rated on a nine point scale from very-much-below average to very-much-above average difficulty, with difficulty defined as the length of time required for an average incumbent to learn to do the task. Interrater agreement among the 65 raters was .97. Ratings were normalized to the nine point scale so that tasks of average difficulty have ratings of 5.00.

Tables 16 and 17 list the most difficult tasks performed by substantial percentages of job incumbents with DAFSC 23350 (Table 16) and DAFSC 23331 (Table 17). The clearest finding is that very high percentages of DAFSC 23331 personnel perform large numbers of above average difficulty tasks. Table 17 contains 24 above average difficulty tasks performed by greater than 55 percent of DAFSC 23331 incumbents. An additional 82 above average difficulty tasks are being performed by 20 percent or more of the DAFSC 23331 incumbents. Conversely, Table 16 shows that relatively low percentages of DAFSC 23350 personnel perform tasks that have above average difficulty. Only 19 tasks rated above average in difficulty are being performed by more than 25 percent of DAFSC 23350 incumbents.

DAFSC 23331 incumbents also performed an average of 124 tasks compared with an average of 88 tasks performed by DAFSC 23350 incumbents. As previously discussed in the DAFSC analysis section of this report, DAFSC 23350 and DAFSC 23331 personnel perform very different duties and tasks. Table 18 lists the percentage of tasks rated above average in difficulty for those respective duties performed by high percentages of DAFSC 23350 and DAFSC 23331 personnel. It is clearly evident that the duties being performed by DAFSC 23331 personnel contain very large percentages of greater than average difficulty tasks. Conversely, the duties being performed by DAFSC 23350 personnel that consume substantial amounts of their time have very low percentages of difficult tasks.

# SPECIALITY TRAINING STANDARD (STS) ANALYSIS

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#### STS 233X0

The Specialty Training Standard for the AFS 233XO career ladder provides general coverage of the majority of tasks performed by 233XO personnel in the field. With one exception, all specialty duties and tasks specified in the STS are performed by five percent or more of DAFSC 23330/50/70 personnel. The exception is STS paragraphs 7al, b2, cl, dl, el, and fl which specify reproducing color imagery by continuous methods. The survey tasks listed in Duty L, Printing Color Materials by Continuous Methods, relate to these STS paragraphs. Not a single one of these tasks is being performed by more than nine percent of DAFSC 23330, DAFSC 23350, or DAFSC 23370 incumbents, and many tasks were not performed at all.

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TASKS RATED ABOVE AVERAGE IN DIFFICULTY (5.00) PERFORMED BY MORE THAN 25 PERCENT OF DAFSC 23350 PERSONNEL

TASK NO.	TASK	PERCENT PERFORMING	DIFFICULTY INDEX
61	ASSEMBLE OR DISASSEMBLE RELOCATABLE PHOTOGRAPHIC EQUIPMENT	27	6.5
115	ESTABLISH BW FILM CHEMISTRY REPLENISHER FLOW RATES	28	6.2
621	POSITION SHELTERS ON SITE	32	6.1
630	PREPARE PROCESSORS FOR USE OR TRANSPORT	59	5.8
125	MAKE BW STARTUP CORRECTIONS	56	5.7
620	PERFORM SHELTER CORROSION CONTROL PROCEDURES	38	5.6
126	MONITOR QUALITY OF PROCESSED BW MATERIAL AT PROCESSORS TAKE-UP	37	5.6
90	CONDUCT ON-THE-JOB TRAINING	31	5.5
611	FOLD OR UNFOLD SHELTERS	38	5.4
639	PURGE SHELTER CHEMICAL LINES	56	5.4
640	PURGE WATER FROM SHELTER SYSTEM	36	5.4
641	REMOVE OR INSTALL SHELTER TRANSPORTERS	36	5.4
116	ESTABLISH BW PROCESSOR TEMPERATURE	32	5.4
130	PRE-INSPECT BW FILM FOR PHYSICAL DEFECTS SUCH AS NICKS OR TEARS	56	5.4
633	PREPARE SHELTER AIR CONDITIONERS FOR USE OR TRANSPORT	33	5.2
08	DEMONSTRATE OPERATION OF EQUIPMENT	38	5.1
629	PREPARE PRINTERS FOR USE OR TRANSPORT	28	5.1
117	ESTABLISH OR VERIFY BW FILM MACHINE SPEED	36	5.1
133	PROCESS BW FILM CONTROL STRIPS FOR MACHINES SPEED/GAMMA CHARTS	33	5.1

TABLE 17

TASKS RATED ABOVE AVERAGE IN DIFFICULTY (5.00) PERFORMED BY MORE THAN 55 PERCENT OF DAFSC 23331 PERSONNEL

TASK NO.	TASK	PERCENT PERFORMING	DIFFICULTY
P12 U19 B24 P19	ESTABLISH OR MAINTAIN TONE CONTROL CHARTS ESTABLISH PROCESS CONTROL AIM POINTS AND CONTROL LIMITS DIRECT QUALITY ASSURANCE PROCEDURES FOR FUNCTIONS PERFORM SENSITOMETIC CORRELATIONS ANALYZE PROCESS CONTROL CHARTS FOR TRENDS TO DETERMINE	65 65 58 72	6.5 6.5 6.5
90 P3		72 68 58	6.9
P7 U15	3 11 11	70	6.2
P5 25		70 80 12	9.00
P10 U16 U26	DETERMINE SOLUTE PH USING PH METERS DETERMINE GAMMA FROM SENSITOMETRIC STRIPS PLOT DATA ON PROCESS CONTROL CHARTS	80 80 80	0.0.0 0.4.4
U37 U28 U31	STANDARDIZE DENSITOMETERS USING A CALIBRATED WEDGE OR CHECK PLAQUE PRINT SENSITOMETRIC STRIPS FOR EMULSION CROSSOVER TESTS READ DENSITY-MINIMUM (D-MIN) AND DENSITY-MAXIMUM (D-MAX)	75 65	4.00
W52 P11 P17 U25 U21	STANDARDIZE PH METERS  STANDARDIZE PH METERS  DETERMINE SPECIFIC GRAVITY OF SOLUTIONS  OPERATE SENSITOMETERS  PLOT DATA FROM SENSITOMETRIC STRIPS  EXPOSE SENSITOMETRIC CONTROL STOCK SAMPLES	70 72 82 85 72	0.000000

TABLE 18

PERCENTAGE OF ABOVE AVERAGE DIFFICULTY TASKS IN HIGH TIME CONSUMPTION DUTIES

	DUTY	PERCENT TIME SPENT	PERCENT TASKS ABOVE AVERAGE DIFFICULTY
DAFS	DAFSC 23350:		
·	1. PROCESSING BLACK AND WHITE MATERIALS BY CONTINUOUS		
	MEIHOUS MAINTAINING RELOCATABLE PHOTOGRAPHIC FACILITIES PROCESSING COLOR MATERIALS BY CONTINUOUS METHODS	25 10 10	17 36 13
DAFS	DAFSC_23331:		
⊃.≆.c.	U. PERFORMING SENSITOMETRY AND DENSITOMETRY TESTS W. PRODUCING CHEMICAL MIXES AND PERFORMING CHEMICAL ANALYSIS P. MAINTAINING QUALITY CONTROL	20 17 12	73 67 90

A major discrepancy is also found in tasks performed but not presently contained in the STS. Thirty-five such tasks were identified and are contained in Table 19. As can be seen, these tasks pertain primarily to quality control duties (Duties P, U, and W).

#### STS 233X1

All the duties and tasks specified in the STS are being performed by 23331/71 personnel. Table 20, however, contains 106 tasks performed by ten percent or more of DAFSC 23331/71 personnel which are not specifically contained in the STS. As can be seen, most of the tasks fall into four major duties: Duty G, Maintaining Relocatable Photographic Facilities, in which 22 out of 45 survey tasks are being performed; Duty J, Processing Color Materials by Continuous Methods, in which 33 of 76 tasks are being performed; Duty O, Exposing, Processing, and Finishing BW Prints Manually, in which 20 out of 46 survey tasks are being performed; and Duty S, Editing and Cleaning Processed Imagery, in which 8 out of 18 survey tasks are being performed. Eleven tasks in Duty W, Producing Chemical Mixes and Performing Chemical Analysis, are being performed but are not specified in the STS. These tasks generally deal with chemical mixing functions.

TABLE 19

TASKS NOT LISTED IN STS 233X0 BUT PERFORMED BY TEN PERCENT OR MORE OF DAFSC 23330/50/70 PERSONNEL

			T PERFO	
TASKS	BY DUTY	DAFSC 23330	DAFSC 23350	DAFSC 23370
DUTY P				
P5 P6 P7	COMPUTE GAMMA OF PROCESSED FILM CONSTRUCT AND MAINTAIN CHEMICAL CONTROL CHARTS CONSTRUCT CHARACTERISTIC CURVES TO EVALUATE	2 2	12 11	15 11
P8 P10 P14 P18	MEASURE MACHINE SPEED WITH TACHOMETERS	5 0 5 2 2	8 11 14 9 5	13 11 15 13
DUTY S		2		10
S13 S14	PACKAGE CLASSIFIED WASTE FOR DISPOSAL PLACE IDENTIFICATION LABELS ON FILM REELS OR	2	12	18
\$17	FILM CANS TRANSPORT COMPLETED MATERIALS TO OPERATIONS OR SHIPPING	14 5	16 11	21 16
DUTY T				
T20 T21 T22 T23 T24	TURN ON HEAT AND AIR SUPPLY TO TITLERS TURN ON MAIN POWER TO TITLERS	27 27 25 30 20	22 20 21 22 20	13 10 12 13
DUTY U				
U2 U16 U25 U26 U33	PLOT DATA ON PROCESS CONTROL CHARTS REMOVE EXPOSED SENSITOMETRIC CONTROL STRIPS	0 5 2 2	7 12 14 11	10 10 12 12
U37	FROM FREEZER STANDARDIZE DENSITOMETERS USING A CALIBRATED WEDGE OR CHECK PLAQUE	7	12	11

## TABLE 19 (CONTINUED)

# TASKS NOT LISTED IN STS 233X0 BUT PERFORMED BY TEN PERCENT OR MORE OF DAFSC 23330/50/70 PERSONNEL

		PERCEN	T PERFO	
TASKS	TASKS BY DUTY		DAFSC 23350	
1110110		23330	20000	20070
DUTY W				
W2	ANALYZE CONTROL CHARTS ON CHEMICAL ANALYSIS	2	6	11
W3	CALCULATE CORRECTIVE ADDITIONS TO CHEMISTRY	5	7	10
W6	CALIBRATE DENSITOMETERS	0	11	9
W9	CHANGE CHEMICAL MIXING WATER AND CHEMICAL FILTERS	1	12	17
W10	CHECK TEMPERATURE INDICATORS AGAINST STANDARDS	5	12	11
W25	MAKE CORRECTIVE ADDITIONS TO MIXED CHEMISTRY	11	11	13
W29	MAKE PACKAGED CHEMICALS FOR CHEMICAL MIX AND			
	CHEMICAL ANALYSIS	9	12	14
W34	OPERATE OR MAINTAIN LABORATORY EQUIPMENT	2	7	10
W39	PERFORM CORROSION CONTROL ON MIXING AND STORAGE			
	EQUIPMENT	2	13	6
W49	REMOVE CHEMISTRY SAMPLES FOR CERTIFICATION	2	14	11
W53	STORE MIXED CHEMICALS	2	16	16
W54	STORE UNMIXED CHEMICALS	2	16	18
W56	TRANSFER CERTIFIED MIXED CHEMISTRY TO STORAGE			
	TANKS	2	14	13
W59	VERIFY MACHINE SPEEDS OR TRANSPORT RATES	2	11	13

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### TABLE 20

# TASKS NOT LISTED IN STS 233X1 BUT PERFORMED BY TEN PERCENT OR MORE OF DAFSC 233X1/71 PERSONNEL

			PERFORMING
		DAFSC	
TASKS	BY DUTY	23331	23371
DUTY G			
G2	ASSEMBLE OR DISASSEMBLE RELOCATABLE PHOTOGRAPHIC	10	
0.6	EQUIPMENT	10	2 5
G6 G7	CLEAN SHELTER PROCESSOR DRYING CABINETS CLEAN SHELTER PROCESSOR EXTERIORS OR INTERIORS	10 22	8
G8	CLEAN SHELTER PROCESSOR RACKS	13	
G9	CONNECT OR DISCONNECT COMMUNICATION LINES	10	3
G13	INSPECT SHELTER WATER SUPPLY SYSTEMS	17	3 2 8
G14	INSTALL OR REMOVE SHELTER WATER LINE HEATER BLANKETS		2
G18	PACK OR UNPACK AND STORE SHELTER EXPENDABLES	25	2 8
G20	PERFORM SHELTER CORROSION CONTROL PROCEDURES	32	6
G24	PREPARE FILM CLEANERS FOR USE OR TRANSPORT	10	5
G25	PREPARE FILM FOR USE OR TRANSPORT	22	5 6
G27	PREPARE LIGHT TABLES FOR USE OR TRANSPORT	35	6
G29	PREPARE PRINTERS FOR USE OR TRANSPORT	13	2
G30	PREPARE REFRIGERATOR UNITS FOR USE OR TRANSPORT	15	2 3
G31	PREPARE SENSITOMETERS FOR USE OR TRANSPORT	20	5
G33	PERPARE SHELTER AIR CONDITIONERS FOR USE OR		
	TRANSPORT	32	8
G34		38	8
G37	PREPARE SHELTER LIGHTS FOR USE OR TRANSPORT PREPARE TITLERS FOR USE OR TRANSPORT	13	5
G38		17	6
G39	PURGE SHELTER CHEMICAL LINES	22	8
G40	PURGE WATER FROM SHELTER SYSTEM	20	6
G42	SEAL SHELTERS OR PASSAGEWAYS	22	8
DUTY I			
0011 1			
15	ANNOTATE MISSION CONTROL DOCUMENTS WITH BW FILM OR		
	PAPER PROCESSING DATA	20	6
16	CLEAN BW PROCESSING ROOMS	20	8
110	CLEAN OR ADJUST BW PROCESSOR SQUEEGEES	10	3
130	PRE-INSPECT BW FILM FOR PHYSICAL DEFECTS SUCH AS		
	NICKS OR TEARS	17	6
137	RINSE BW PROCESSOR ROLLERS OR RACKS AFTER SHUT DOWN	20	6
144	SPLICE BW FILM MISSION MATERIALS TO LEADERS OR LEADE		
	TABS	20	8
146	SPLICE ON BW RUN-OUT LEADERS AT END OF PROCESSING		
	RUNS	10	5
148	THREAD BW PROCESSORS WITH LEADERS	13	6

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### TABLE 20 (CONTINUED)

# FASKS NOT LISTED IN STS 233X1 BUT PERFORMED BY TEN PERCENT OR MORE OF DAFSC 233X1/71 PERSONNEL

	BY DUTY		PERFORMING
TACKS	DV DUTV	DAFSC	DAFSC
1 A5 K5	BY DUTY	23331	23371
DUTY J			
J5	ASSEMBLE COLOR MOTION PICTURE FILM FOR PROCESSING CLEAN COLOR PROCESSOR DRYING CABINETS CLEAN COLOR PROCESSOR ROOMS	10	0
J6	CLEAN COLOR PROCESSOR DRYING CABINETS	10	2
J7	CLEAN COLOR PROCESSOR ROOMS	10	6
18	CLEAN COLOR PROCESSOR USING SYSTEM CLEANING SOLUTIONS	5 10	5
J9	CLEAN OR ADJUST COLOR PROCESSOR SQUEEGEES	10	0
J11	CORRECT COLOR FILM PHYSICAL DEFECTS	10	6
J13	DRAIN COLOR PROCESSOR CHEMICAL TANKS	10	6
J14	DRAIN OR REFILL COLOR PROCESSOR WASH TANKS	10	8
J16	FILL PROCESSOR CHEMICAL TANKS WITH COLOR CHEMISTRY	10	8
J19	INSPECT OR CHANGE COLOR PROCESSOR CHEMICAL FILTERS	10	8
J25	MAKE COLOR START-UP CORRECTIONS	10	5
J26	MONITOR PROCESSOR TAKE UP OF COLOR MATERIALS	13	6
J34	TRE-THS LOT COLOR TIEN TON THISTCAL DELECTS SOCI		
140	AS NICKS OR TEARS	13	3
J43	RINSE COLOR PROCESSOR ROLLERS AND RACKS AFTER SHUT	1.0	•
145	DOWN	10	3
145	SET COLOR PROCESSOR TEMPERATURE CONTROL UNITS	10	6
146	SET OR MAINTAIN COLOR CHEMISTRY REPLENISHER RATES	15	8
140	SET OR MAINTAIN COLOR CHEMISTRY REPLENISHER RATES SET OR MAINTAIN COLOR PROCESSOR TRANSPORT SPEED	15	6
J48	SET OR MAINTAIN COLOR PROCESSOR WATER TEMPERATURE		8
140	AND FLOW RATES	15	Ö
J49		13	8
J61	DRIERS THREAD COLOR PROCESSORS WITH LEADERS	10	2
162	THEN OFF COLOR PROCESSORS WITH LEADERS	10	ο ο
164	THEN OFF COLOR PROCESSOR CHEMICAL RECIRCULATION FORMS	13	6
165	TURN OFF COLOR PROCESSOR CHEMICAL RECIRCULATION PUMPS TURN OFF COLOR PROCESSOR DRYERS TURN OFF COLOR PROCESSOR DRYER HEATERS TURN OFF COLOR PROCESSOR MAIN DRIVE TURN OFF COLOR PROCESSOR MAIN POWER TURN OFF COLOR PROCESSOR WATER SUPPLY TURN ON CHEMICAL REPLENISHMENT FOR COLOR PROCESSORS TURN ON COLOR PROCESSOR CHEMICAL RECIRCULATION PUMPS TURN ON COLOR PROCESSOR DRYERS AND ADJUST TEMPERATURE	13	6
.166	TURN OFF COLOR PROCESSOR MAIN DRIVE	13	8
167	TURN OFF COLOR PROCESSOR MAIN POWER	13	8
168	TURN OFF COLOR PROCESSOR WATER SUPPLY	10	8
169	TURN ON CHEMICAL REPLENISHMENT FOR COLOR PROCESSORS	15	8
170	TURN ON COLOR PROCESSOR CHEMICAL RECIRCULATION PUMPS	15	8
J71	TURN ON COLOR PROCESSOR DRYERS AND ADJUST TEMPERATURE		
· · ·	CONTROLS	10	6
J72	TURN ON COLOR PROCESSOR DRYER HEATERS	10	6
J73		13	8
J74	TURN ON COLOR PROCESSOR MAIN POWER	10	8
J75		13	8
DUTY K			
K2	ADJUST POSITION OF BW LIGHT SOURCES FOR CONTINUOUS PRINTING	5	12
K15	REWIND BW NEGATIVE OR POSITIVE FILM USING REWINDER		11
K16	ROLL OUT AND ATTACH CERTIFICATION FRISKETS	13	2
	MOLE OF THE REPORT CERTIFICATION PRISEES	10	2
39			

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## TABLE 20 (CONTINUED)

# TASKS NOT LISTED IN STS 233X1 BUT PERFORMED BY TEN PERCENT OR MORE OF DAFSC 233X1/71 PERSONNEL

		PERCENT	PERFORMING
TACKE	DV DUTY	DAFSC	
TASKS	BY DUTY	23331	23371
DUTY 0			
04 06	ATTACH FRISKETS TO ORIGINAL NEGATIVE FRAMES COMPOSE AND FOCUS BW PRINTS USING PROJECTION	10	6
	PRINTERS	7	11
08 010	CONSTRUCT MASKS FOR MANUAL CONTACT PRINTERS CONSTRUCT BW MANUAL PRINT PROCESSING SOLUTION	7	10
	TEMPERATURES	13	8
012	DETERMINE MANUAL BW PRINTING EXPOSURE WITH ANALYZERS OR DENSITOMETERS	10	8
013	DETERMINE CONTRAST FROM MANUALLY PRODUCED BW TEST STRIPS	13	8
015	DETERMINE MAGNIFICATION, REDUCTION, OR SCALE FOR	13	0
	BW PRINTING	7	10
017	FINISH BW PRINTS MANUALLY	10	8
020	INFLATE CONTACT PRINTER PLATENS	10	5
025	OPERATE MANUAL LIGHT DODGING CONTACT BW PRINTERS	7	10
026	PERFORM PRE-OPERATION INSPECTIONS OF CONTINUOUS		
	TIMERS	10	6
027 033	PERFORM PRE-OPERATION INSPECTIONS OF INTERVAL TIMERS PREPARE AND MIX SPECIAL SOLUTIONS FOR MANUAL	10	8
000	PROCESSING	17	5
035	PREPARE TRAYS FOR MANUAL BW PRINT PROCESSING	15	6
038	SELECT AND ADJUST STILL PRINT DRIERS SPEED AND TEMPERATURE	17	8
040	SELECT CONTRAST CONTROL FILTERS FOR MANUAL BW	17	0
040	PRINTING	15	8
043	SHUT-DOWN MANUAL PRINT DRIERS	15	8
044	SHUT-DOWN MANUAL PRINT WASHERS	15	6
045	TURN ON MANUAL PRINT DRIERS	15	8
046	TURN ON MANUAL PRINT WASHERS	15	6
DUTY S			
S5 S10	CLEAN AERIAL FILM USING TACKY ROLLER CLEANERS EVALUATE PROCESSED FILM DENSITY FOR PROPER EXPOSURE	10	6
	AND PROCESSING	27	13
512	INSPECT PROCESSED FILM PROCESSING DEFECTS	32	9
S13	PACKAGE CLASSIFIED WASTE FOR DISPOSAL	10	3
\$14	PLACE IDENTIFICATION LABELS ON FILM REELS OR FILM		
	CANS	13	6
\$16	SPLICE HEAD AND TAIL FRISKETS OR LEADERS ONTO		
617	ORIGINAL FILM	10	6
S17	TRANSPORT COMPLETED MATERIALS TO OPERATIONS OR SHIPPING	10	3
40	SHITT ING	10	3

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## TABLE 20 (CONTINUED)

# TASKS NOT LISTED IN STS 233X1 BUT PERFORMED BY TEN PERCENT OR MORE OF DAFSC 233X1/71 PERSONNEL

		PERCENT	PERFORMING DAFSC
TASKS	BY DUTY	23331	23371
DUTY T			
Т6	CERTIFY TITLERS FOR INFORMATION CONTENT, LEGIBILITY, AND POSITIONING	20	13
DUTY W			
W1	ADD CHEMICALS TO MIX TANKS	70	40
W9	CHANGE CHEMICAL MIXING WATER AND CHEMICAL FILTERS	35	26
W11	CLEAN AND RINSE CHEMICAL MIXING EQUIPMENT	65	35
W16	DETERMINE RESIDUAL THIOSULFATE CONTENT OF FILM	25	21
W19	DILUTE MIXED CHEMICALS TO VOLUME	67	34
W20	DISPOSE OF EMPTY CHEMICAL CONTAINERS	65	34
W23	FILL CHEMICAL MIX TANKS WITH WATER AT MIX		
	TEMPERATURE	63	34
W28	MIX BUFFER SOLUTIONS	38	29
W29	MIX PACKAGED CHEMICALS FOR CHEMICAL MIX AND CHEMICAL		
	ANALYSIS	60	37
W30	MONITOR AND CORRELATE OUTPUT OF SENSITOMETERS	40	32
W39	PERFORM CORROSION CONTROL ON MIXING AND STORAGE		
	EQUIPMENT	40	19

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#### CONCLUSIONS

The career ladder structure analysis clearly indicates that BW and color film processing and printing functions are distinct from photoprocessing quality control functions. However, 38 percent of the incumbents performing photoprocessing quality control tasks and duties are AFS 233X0 personnel. Because of the large numbers of DAFSC 23350/70 personnel in relation to those few DAFSC 233X0 respondents who are performing these photoprocessing quality control functions, the overall DAFSC 233X0 job descriptions do not reflect quality control tasks and duties as significant. Survey data, therefore, make it clear that these quality control functions need to be reevaluated to determine who in the total ladder structure should perform these functions.

The AFM 39-1 job descriptions for AFS 233XO and AFS 233XI specialty descriptions both require revision to accurately reflect all the tasks performed by the respective job incumbents.

The Specialty Training Standards for both AFS 233XO and AFS 233XI career ladders require review and revision to include those tasks being performed by incumbents but currently not specified in the respective STSs.

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APPENDIX A

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GROUP ID NUMBER AND TITLE: GRP150 - FIXED B/W CONTINUOUS PHOTOPROCESS AND SELECT PRINT SPECIALIST

PERCENT OF SAMPLE: 3%

MAJOR COMMAND DISTRIBUTION: TAC (50%), PACAF (45%), OTHER (5%)

LOCATION: CONUS (50%)

SEX GROUP: MALE (91%), FEMALE (9%)

DAFSC DISTRIBUTION: 23350 (90%), 23370 (5%), 23331 (5%)

AVERAGE GRADE: 4.14

AMOUNT OF SUPERVISION: 18% SUPERVISE AN AVERAGE OF 2.25 AMN

AVERAGE NUMBER OF TASKS PERFORMED: 101

TIME SPENT ON DUTIES:

DUTY		AVERAGE PERCENT TIME SPENT BY ALL MEMBERS
I P	ROCESSING BLACK AND WHITE MATERIALS BY CONTINUOUS	
	METHODS	39
0 E	XPOSING, PROCESSING, AND FINISHING BW PRINTS MANUALLY	29
M P	ROCESSING BLACK AND WHITE FILM MANUALLY	8
K P	RINTING BLACK AND WHITE MATERIALS BY CONTINUOUS	
	METHODS	4

TASK	<u>S</u>	PERCENT MEMBERS PERFORMING
16 06	CLEAN BW PROCESSING ROOMS COMPOSE AND FOCUS BW PRINTS USING PROJECTION PRINTERS	100 100
	WIPE DOWN BW PROCESSORS	93
022	INSPECT, TRIM, OR SORT BW PRINTS ACCORDING TO ORDERS	86
M10	SORT MANUALLY PROCESSED BW FILM TO MATCH WORK ORDERS	68

GROUP ID NUMBER AND TITLE: GRP157 - MOBILE ORIGINAL PHOTOPROCESS AND PRINT SPECIALIST

PERCENT OF SAMPLE: 7%

MAJOR COMMAND DISTRIBUTION: TAC (73%), PACAF (13%), USAFE (11%), OTHER (3%)

LOCATION: CONUS (73%)

SEX GROUP: MALE (96%), FEMALE (4%)

DAFSC DISTRIBUTION: 23330 (18%), 23350 (80%), 23370 (2%)

AVERAGE GRADE: 3.73

AMOUNT OF SUPERVISION: 22% SUPERVISE AN AVERAGE OF 3.9 AMN

AVERAGE NUMBER OF TASKS PERFORMED: 164

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TIME SPENT ON DUTIES:

DU	<u>TY</u>	AVERAGE PERCENT TIME SPENT BY ALL MEMBERS
I	PROCESSING BLACK AND WHITE MATERIALS BY CONTINUOUS METHODS	30
G	MAINTAINING RELOCATABLE PHOTOGRAPHIC FACILITIES	22
0	EXPOSING, PROCESSING, AND FINISHING BW PRINTS MANUALLY	17
T	TITLING PROCESSED IMAGERY	8
K	PRINTING BLACK AND WHITE MATERIALS BY CONTINUOUS	
	METHODS	8

TASKS	PERCENT MEMBERS PERFORMING
160 TURN ON BW PROCESSOR MAIN DRIVE	100
G15 LEVEL SHELTERS	96
021 INSERT BW NEGATIVES IN MANUAL PROJECTION PRINTERS	91
K23 THREAD BW MATERIALS ON CONTINUOUS PRINTERS	89
T15 SET UP TITLE TYPE BLOCKS	82

GROUP ID NUMBER AND TITLE: GRP180 - WING CONTINUOUS PHOTOPROCESSOR AND RELOCATABLE FACILITY MAINTAINER

PERCENT OF SAMPLE: 1%

MAJOR COMMAND DISTRIBUTION: PACAF (62%), TAC (38%)

LOCATION: OSEAS (63%)

SEX GROUP: MALE (100%), FEMALE (0%)

DAFSC DISTRIBUTION: 23330 (12%), 23350 (76%), 23370 (12%)

AVERAGE GRADE: 4.63

AMOUNT OF SUPERVISION: 38% SUPERVISE AN AVERAGE OF 1 AMN

AVERAGE NUMBER OF TASKS PERFORMED: 180

TIME SPENT ON DUTIES:

DUTY	AVERAGE PERCENT TIME SPENT BY ALL MEMBERS
I PROCESSING BLACK AND WHITE MATERIALS BY CONTINUOUS METHODS	26
J PROCESSING COLOR MATERIALS BY CONTINUOUS METHODS	26 23
G MAINTAINING RELOCATABLE PHOTOGRAPHIC FACILITIES	14
O EXPOSING, PROCESSING, AND FINISHING BW PRINTS MANUALL	Y 12
W PRODUCING CHEMICAL MIXES AND PERFORMING CHEMICAL	
ANALYSIS	6

#### FIVE REPRESENTATIVE TASKS:

TASK	<u>S</u>	PERCENT MEMBERS PERFORMING
	TURN ON BW PROCESSOR MAIN DRIVE SELECT CONDENSER LENSES FOR PROJECTION PRINTERS	100 100
G11	FOLD OR UNFOLD SHELTERS	88
	TURN ON COLOR PROCESSOR MAIN DRIVE PERFORM SHELTER CORROSION CONTROL PROCEDURES	88 75

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GROUP ID NUMBER AND TITLE: GRP128 - FIXED DUPLICATE PRINTER, EDITOR, AND TITLER

PERCENT OF SAMPLE: 2%

MAJOR COMMAND DISTRIBUTION: TAC (38%), AFSC (31%), USAFE (13%), MAC (6%), AFCS (6%), PACAF (6%)

LOCATION: CONUS (69%)

SEX GROUP: MALE (87%), FEMALE (13%)

DAFSC DISTRIBUTION: 23350 (81%), 23370 (13%), 23371 (6%)

AVERAGE GRADE: 4.38

AMOUNT OF SUPERVISION: 38% SUPERVISE AN AVERAGE OF 2.33 AMN

AVERAGE NUMBER OF TASKS PERFORMED: 107

TIME SPENT ON DUTIES:

<u>DU</u>	<u>TY</u>	AVERAGE PERCENT TIME SPENT BY ALL MEMBERS
I	PROCESSING BLACK AND WHITE MATERIALS BY CONTINUOUS METHODS	48
K	PRINTING BLACK AND WHITE MATERIALS BY CONTINUOUS METHODS	15
S	EDITING AND CLEANING PROCESSED IMAGERY	6
T	TITLING PROCESSED IMAGERY	6
В	DIRECTING AND IMPLEMENTING	5
W	PRODUCING CHEMICAL MIXES AND PERFORMING CHEMICAL	
	ANALYSIS	4

TASKS	PERCENT MEMBERS PERFORMING
141 SET OR MAINTAIN BW PROCESSOR DRYER TEMPERATURE AND	
HUMIDITY	100
K13 PRINT BW DUPLICATES USING CONTINUOUS PRINTERS	75
S5 CLEAN AERIAL FILM USING TACKY ROLLER CLEANERS	69
S12 INSPECT PROCESSED FILM PROCESSING DEFECTS	69
T2 ADJUST TITLER BRACKETS AND SPINDLES FOR FILM WIDTHS	44
T23 TURN ON MAIN POWER TO TITLERS	44

GROUP ID NUMBER AND TITLE: GRP129 - CONTINUOUS B/W PHOTOPROCESSING SPECIALIST

PERCENT OF SAMPLE: 17%

MAJOR COMMAND DISTRIBUTION: TAC (60%), USAFE (23%), PACAF (7%), OTHER (10%)

LOCATION: CONUS (68%)

SEX GROUP: MALE (94%), FEMALE (6%)

DAFSC DISTRIBUTION: 23330 (17%), 23350 (74%), 23370 (9%)

AVERAGE GRADE: 3.9

AMOUNT OF SUPERVISION: 25% SUPERVISE AN AVERAGE OF 2.69 AMN

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AVERAGE NUMBER OF TASKS PERFORMED: 67

TIME SPENT ON DUTIES:

DUTY	SPENT BY ALL MEMBERS
I PROCESSING BLACK AND WHITE MATERIALS BY CONTINUOUS METHODS	68
G MAINTAINING RELOCATABLE PHOTOGRAPHIC FACILITIES	18
B DIRECTING AND IMPLEMENTING	5

TASKS	PERCENT MEMBERS PERFORMING
I63 WIPE DOWN BW PROCESSORS	98
I50 TURN OFF BW PROCESSOR DRYERS	97
152 TURN OFF BW PROCESSOR MAIN DRIVES	97
I60 TURN ON BW PROCESSOR MAIN DRIVE	97
I62 TURN ON WATER SUPPLY FOR BW PROCESSORS	96

GROUP ID NUMBER AND TITLE: GRPO87 - TAC GUN CAMERA PHOTOPROCESSING SPECIALIST

PERCENT OF SAMPLE: 1%

MAJOR COMMAND DISTRIBUTION: TAC (100%)

LOCATION: CONUS (100%)

SEX GROUP: MALE (80%), FEMALE (20%)

DAFSC DISTRIBUTION: 23350 (100%)

AVERAGE GRADE: 4

AMOUNT OF SUPERVISION: NONE

AVERAGE NUMBER OF TASKS PERFORMED: 47

TIME SPENT ON DUTIES:

DUTY	AVERAGE PERCENT TIME SPENT BY ALL MEMBERS
I PROCESSING BLACK AND WHITE MATERIALS BY CONTINUOUS METHODS	53
U PERFORMING SENSITOMETRY AND DENSITOMETRY TESTS	14
P MAINTAINING QUALITY CONTROL W PRODUCING CHEMICAL MIXES AND PERFORMING CHEMICAL	8
ANALYSIS	8

#### FIVE REPRESENTATIVE TASKS:

TASKS	PERCENT MEMBERS PERFORMING
119 INSPECT, CLEAN OR LOAD BW FILM MAGAZINES 159 TURN ON BW PROCESSOR MAIN POWER	100 80
P8 DETERMINE EXHAUSTION POINT OF CHEMISTRY P17 OPERATE SENSITOMETERS	80
U30 READ DENSITIES OF SENSITOMETRIC STRIPS	80 80

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GROUP ID NUMBER AND TITLE: GRP120 - CONTINUOUS B/W AND COLOR PHOTOPROCESSING TECHNICIAN

PERCENT OF SAMPLE: 4%

MAJOR COMMAND DISTRIBUTION: TAC (40%), MAC (20%), AFSC (13%), ATC (10%), HQ COMM SPEC ACTY (10%), OTHER (6%)

LOCATION: CONUS (77%)

SEX GROUP: MALE (100%)

DAFSC DISTRIBUTION: 23330 (3%), 23350 (40%), 23370 (17%), 23331 (17%),

23371 (23%)

AVERAGE GRADE: 5.1

AMOUNT OF SUPERVISION: 33% SUPERVISE AN AVERAGE OF 4 AMN

AVERAGE NUMBER OF TASKS PERFORMED: 276

TIME SPENT ON DUTIES:

DU	<u>TY</u>	SPENT BY ALL MEMBERS
J I	PROCESSING COLOR MATERIALS BY CONTINUOUS METHODS PROCESSING BLACK AND WHITE MATERIALS BY CONTINUOUS	21
	METHODS	18
W	PRODUCING CHEMICAL MIXES AND PERFORMING CHEMICAL	
	ANALYSIS	12
U	PERFORMING SENSITOMETRY AND DENSITOMETRY TESTS	7
В	DIRECTING AND IMPLEMENTING	7
P	MAINTAINING QUALITY CONTROL	5
0	EXPOSING, PROCESSING, AND FINISHING BW PRINTS MANUALLY	4
K	PRINTING BLACK AND WHITE MATERIALS BY CONTINUOUS METHOD	OS 3

#### SIX REPRESENTATIVE TASKS:

TASKS	PERCENT MEMBERS PERFORMING
P16 OPERATE DENSITOMETERS	93
117 ESTABLISH OR VERIFY BW FILM MACHINE SPEED	90
J27 OPERATE COLOR IMMERSION PROCESSORS	87
P10 DETERMINE SOLUTION PH USING PH METERS	87
J47 SET OR MAINTAIN COLOR PROCESSOR TRANSPORT SPEED	83
W29 MIX PACKAGED CHEMICALS FOR CHEMICAL MIX AND CHEMICAL	
ANALYSIS	83

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GROUP ID NUMBER AND TITLE: GRP124 - B/W PHOTOPROCESS AND PRINT SUPERVISOR

PERCENT OF SAMPLE: 2%

MAJOR COMMAND DISTRIBUTION: TAC (44%), ATC (21%), PACAF (21%), SAC (7%), AFSC (7%)

LOCATION: CONUS (79%)

SEX GROUP: MALE (93%), FEMALE (7%)

DAFSC DISTRIBUTION: 23350 (36%), 23370 (50%), 23371 (7%), 23391 (7%)

AVERAGE GRADE: 5.6

AMOUNT OF SUPERVISION: 79% SUPERVISE AN AVERAGE OF 2.73 AMN

AVERAGE NUMBER OF TASKS PERFORMED: 213

TIME SPENT ON DUTIES:

DU		SPENT BY ALL MEMBERS
I	PROCESSING BLACK AND WHITE MATERIALS BY CONTINUOUS METHODS	22
0 B	EXPOSING, PROCESSING, AND FINISHING BW PRINTS MANUALLY DIRECTING AND IMPLEMENTING	12
W	PRODUCING CHEMICAL MIXES AND PERFORMING CHEMICAL ANALYS PRINTING BLACK AND WHITE MATERIALS BY CONTINUOUS METHODS	
U D	PERFORMING SENSITOMETRY AND DENSITOMETRY TESTS TRAINING	6 6
P A	MAINTAINING QUALITY CONTROL ORGANIZING AND PLANNING	4
C	EVALUATING	3

#### FIVE REPRESENTATIVE TASKS:

TASK	<u>s</u>	PERCENT MEMBERS PERFORMING
126	MONITOR QUALITY OF PROCESSED BW MATERIAL AT PROCESSORS	
	TAKE-UP	100
C9	EVALUATE PERSONNEL PERFORMANCE	93
D8	DEMONSTRATE OPERATION OF EQUIPMENT	93
B1	ASSIGN DUTIES TO PERSONNEL	86
<b>B54</b>	SUPERVISE CONTINUOUS PHOTOPROCESSING SPECIALISTS	
	(AFSC 23350)	72

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GROUP ID NUMBER AND TITLE: GRPO44 - PRECISION TITLER AND CONTINUOUS PRINTER

PERCENT OF SAMPLE: 2%

MAJOR COMMAND DISTRIBUTION: PACAF (40%), SAC (20%), AFSC (13%), TAC (13%),

OTHER (14%)

LOCATION: CONUS (47%), OSEAS (40%), NR (13%)

SEX GROUP: MALE (94%), FEMALE (6%)

DAFSC DISTRIBUTION: 23330 (14%), 23350 (60%), 23370 (26%)

AVERAGE GRADE: 4.7

AMOUNT OF SUPERVISION: 27% SUPERVISE AN AVERAGE OF 4.75 AMN

AVERAGE NUMBER OF TASKS PERFORMED: 67

TIME SPENT ON DUTIES:

		AVERAGE PERCENT TIME
DU	TY	SPENT BY ALL MEMBERS
_	TITLING DOCCESCED IMAGERY	
	TITLING PROCESSED IMAGERY	30
	PRINTING BLACK AND WHITE MATERIALS BY CONTINUOUS METHOD	S 24
S	EDITING AND CLEANING PROCESSED IMAGERY	11
В	DIRECTING AND IMPLEMENTING	6
J	PROCESSING COLOR MATERIALS BY CONTINUOUS METHODS	6
X	CONTROLLING CLEAN ROOM AND ENVIRONMENT	6

## FIVE REPRESENTATIVE TASKS:

TASKS		PERCENT MEMBERS PERFORMING
	SET UP TITLE TYPE BLOCKS	100
	TEST TITLER OPERATION	100
	THREAD BW MATERIALS ON CONTINUOUS PRINTERS	83
	CLEAN AIR SHOWERS	60
X2	CHANGE INTO STREET CLOTHES UPON LEAVING CLEAN ROOM	54

GROUP ID NUMBER AND TITLE: GRP114 - SELECT, MANUAL, AND CONTINUOUS PRINT SPECIALISTS

PERCENT OF SAMPLE: 6%

MAJOR COMMAND DISTRIBUTION: USAFE (50%), TAC (41%), OTHER (9%)

LOCATION: OSEAS (57%)

SEX GROUP: MALE (86%), FEMALE (14%)

DAFSC DISTRIBUTION: 23330 (9%), 23350 (82%), 23370 (9%)

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AVERAGE GRADE: 3.93

AMOUNT OF SUPERVISION: 27% SUPERVISE AN AVERAGE OF 4.42 AMN

AVERAGE NUMBER OF TASKS PERFORMED: 94

TIME SPENT ON DUTIES:

	ENAGE PERCENT TIME
DUTY	ENT BY ALL MEMBERS
O EXPOSING, PROCESSING, AND FINISHING BW PRINTS MANUALLY	34
K PRINTING BLACK AND WHITE MATERIALS BY CONTINUOUS METHODS	17
G MAINTAINING RELOCATABLE PHOTOGRAPHIC FACILITIES	16
T TITLING PROCESSED IMAGERY	16

TASK	<u>s</u>	PERCENT MEMBERS PERFORMING
06	COMPOSE AND FOCUS BW PRINTS USING PROJECTION PRINTERS	100
041	SELECT LENSES FOR BW PROJECTION PRINTERS	100
022	INSPECT, TRIM, OR SORT BW PRINTS ACCORDING TO ORDERS	91
K27	TURN ON BW CONTINUOUS PRINTERS	84
K23	THREAD BW MATERIALS ON CONTINUOUS PRINTERS	81

GROUP ID NUMBER AND TITLE: GRP125 - MANUAL SELECT PRINT SPECIALIST

PERCENT OF SAMPLE: 3%

MAJOR COMMAND DISTRIBUTION: TAC (73%), USAFE (11%), AFSC (11%), PACAF (5%)

LOCATION: CONUS (84%)

SEX GROUP: MALE (89%), FEMALE (11%)

DAFSC DISTRIBUTION: 23330 (11%), 23350 (84%), 23370 (5%)

AVERAGE GRADE: 3.74

AMOUNT OF SUPERVISION: 16% SUPERVISE AN AVERAGE OF 4.67 AMN

AVERAGE NUMBER OF TASKS PERFUMED: 47

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TIME SPENT ON DUTIES:

	AVERAGE PERCENT TIME
DUTY	SPENT BY ALL MEMBERS
O EXPOSING, PROCESSING, AND FINISHING BW PRINTS MANUALLY	74
M PROCESSING BLACK AND WHITE FILM MANUALLY	8
G MAINTAINING RELOCATABLE PHOTOGRAPHIC FACILITIES	5
FIVE REPRESENTATIVE TASKS:	

TASK	<u>s</u>	PERCENT MEMBERS PERFORMING
021	INSERT BW NEGATIVES IN MANUAL PROJECTION PRINTERS	100
022	INSPECT, TRIM, OR SORT BW PRINTS ACCORDING TO ORDERS	100
042	SELECT SENSITIZED MATERIALS FOR MANUAL BW PRINTING	100
M4	DRY MANUALLY PROCESSED BW FILM	47
M12	WASH BW FILM MANUALLY	47

GROUP ID NUMBER AND TITLE: GRP083 - PHOTOPROCESSING CONTROL ANALYSTS

PERCENT OF SAMPLE: 7%

MAJOR COMMAND DISTRIBUTION: TAC (52%), USAFE (28%), AFSC (6%)

LOCATION: CONUS (68%),

SEX GROUP: MALE (98%), FEMALE (2%)

DAFSC DISTRIBUTION: 23350 (26%), 23331 (44%), 23371 (30%)

AVERAGE GRADE: 4.7

AMOUNT OF SUPERVISION: 36% SUPERVISE AN AVERAGE OF 2 AMN

AVERAGE NUMBER OF TASKS PERFORMED: 121

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TIME SPENT ON DUTIES:

E. ( = 1 )	AVERAGE PERCENT TIME SPENT BY ALL MEMBERS
PERFORMING SENSITOMETRY AND DENSITOMETRY TESTS PRODUCING CHEMICAL MIXES AND PERFORMING CHEMICAL ANALYS MAINTAINING QUALITY CONTROL MAINTAINING RELOCATABLE PHOTOGRAPHIC FACILITIES PROCESSING BLACK AND WHITE MATERIALS BY CONTINUOUS METHO	13 12

#### EIGHT REPRESENTATIVE TASKS:

TASK	<u>S</u>	PERCENT MEMBERS PERFORMING
W1	ADD CHEMICALS TO MIX TANKS	84
U20	EVALUATE SENSITOMETRIC STRIPS FOR EXPOSURES	78
U2	ANALYZE PROCESS CONTROL CHARTS FOR TRENDS TO DETERMINE	
	CORRECTIVE ACTION	76
U19	ESTABLISH PROCESS CONTROL AIM POINTS AND CONTROL LIMITS	76
U18	DETERMINE SENSITOMETRIC PRINTING EXPOSURE REQUIREMENTS	68
P19	PERFORM SENSITOMETIC CORRELATIONS	68
W2	ANALYZE CONTROL CHARTS ON CHEMICAL ANALYSIS	58
W3	CALCULATE CORRECTIVE ADDITIONS TO CHEMISTRY	58

GROUP ID NUMBER AND TITLE: GRP100 - PHOTOPROCESSING CONTROL MEASUREMENT - SPECIALIST

PERCENT OF SAMPLE: 1%

MAJOR COMMAND DISTRIBUTION: TAC (100%)

LOCATION: CONUS (100%)

SEX GROUP: MALE (89%), FEMALE (11%)

DAFSC DISTRIBUTION: 23330 (11%), 23350 (56%), 23331 (22%), 23371 (11%)

AVERAGE GRADE: 4.4

AMOUNT OF SUPERVISION: 25% SUPERVISE AN AVERAGE OF 3 AMN

AVERAGE NUMBER OF TASKS PERFORMED: 49

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TIME SPENT ON DUTIES:

DUTY	AVERAGE PERCENT TIME SPENT BY ALL MEMBERS
U PERFORMING SENSITOMETRY AND DENSITOMETRY TESTS P MAINTAINING QUALITY CONTROL W PRODUCING CHEMICAL MIXES AND PERFORMING CHEMICAL ANAL	34 22 YSIS 8

TASKS	PERCENT MEMBERS PERFORMING
P11 DETERMINE SPECIFIC GRAVITY OF SOLUTIONS W26 MAKE PH READINGS	100 100
P12 ESTABLISH OR MAINTAIN TONE CONTROL CHARTS	79
U8 CONSTRUCT MACHINE SPEED-GAMMA CHARTS	79
U25 PLOT DATA FROM SENSITOMETRIC STRIPS	79
P6 CONSTRUCT AND MAINTAIN CHEMICAL CONTROL CHARTS	67
U26 PLOT DATA ON PROCESS CONTROL CHARTS	67

GROUP ID NUMBER AND TITLE: GRP076 - PRECISION PHOTOPROCESSING CONTROL ANALYST

PERCENT OF SAMPLE: 2%

MAJOR COMMAND DISTRIBUTION: PACAF (46%), SAC (18%), HQ USAF (18%), MAC (9%),

HQ COMD SPECIAL ACTIVITY

LOCATION: CONUS (55%)

SEX GROUP: MALE (100%)

DAFSC DISTRIBUTION: 23350 (18%), 23370 (18%), 23331 (27%), 23371 (36%)

AVERAGE GRADE: 5.5

AMOUNT OF SUPERVISION: 36% SUPERVISE AN AVERAGE OF 4 AMN

AVERAGE NUMBER OF TASKS PERFORMED:

TIME SPENT ON DUTIES:

DU		AVERAGE PERCENT TIME SPENT BY ALL MEMBERS
U	PERFORMING SENSITOMETRY AND DENSITOMETRY TESTS	44
P	MAINTAINING QUALITY CONTROL	17
В	DIRECTING AND IMPLEMENTING	11
I	PROCESSING BLACK AND WHITE MATERIALS BY CONTINUOUS METH	ODS 5
X	CONTROLLING CLEAN ROOM AND ENVIRONMENT	5
٧	PERFORMING IMAGE EVALUATION	3

TASKS	PERCENT MEMBERS PERFORMING
U2 ANALYZE PROCESS CONTROL CHARTS FOR TRENDS TO DETERMINE CORRECTIVE ACTION	100
U4 COMPARE RESULTS FOR CROSS-OVER TESTS TO DETERMINE NEW STANDARDS	100
X1 CHANGE INTO CLEAN ROOM CLOTHING BEFORE ENTERING CLEAN ROOM	91
U28 PRINT SENSITOMETRIC STRIPS FOR EMULSION CROSSOVER TESTS	82
P18 PERFORM PRINTER CORRELATIONS	64
V14 MAKE MICROSCOPIC GRANULARITY EVALUATIONS	55

GROUP ID NUMBER AND TITLE: GRPO47 - FIXED FACILITY CHEMICAL SPECIALISTS

PERCENT OF SAMPLE: 3%

MAJOR COMMAND DISTRIBUTION: MAC (36%), PACAF (23%), HQ USAF (18%), HQ COMD SPECIALTY ACTIVITY (14%)

LOCATION: CONUS (77%)

SEX GROUP: MALE (100%)

DAFSC DISTRIBUTION: 23350 (64%), 23370 (9%), 23331 (4%), 23371 (23%)

AVERAGE GRADE: 4.6

AMOUNT OF SUPERVISION: 27% SUPERVISE AN AVERAGE OF 2 AMN

AVERAGE NUMBER OF TASKS PERFORMED: 61

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TIME SPENT ON DUTIES:

DUT	<u>Y</u>		BY ALL MEMBERS
P I	PRODUCING CHEMICAL MIXES AND PERFORMING CHEMICAL A MAINTAINING QUALITY CONTROL DIRECTING AND IMPLEMENTING ORGANIZING AND PLANNING	NALYSIS	59 12 9 4

TASKS	PERCENT MEMBERS PERFORMING
W1 ADD CHEMICALS TO MIX TANKS	95
P11 DETERMINE SPECIFIC GRAVITY OF SOLUTIONS	91
W23 FILL CHEMICAL MIX TANKS WITH WATER AT MIX TEMPERATURE	91
W56 TRANSFER CERTIFIED MIXED CHEMISTRY TO STORAGE TANKS	91
P10 DETERMINE SOLUTION PH USING PH METERS	86
W13 COMPUTE WEIGHTS OF CHEMICALS TO PREPARE REAGENTS OR	
SOLUTIONS	82

GROUP ID NUMBER AND TITLE: GRP031 - MANUAL COLOR PHOTOPROCESSING AND COLOR PRINT SPECIALIST

PERCENT OF SAMPLE: 3%

MAJOR COMMAND DISTRIBUTION: TAC (61%), SAC (16%), PACAF (11%), HQ USAF (6%), MAC (6%)

LOCATION: CONUS (84%)

SEX GROUP: MALE (94%), FEMALE (6%)

DAFSC DISTRIBUTION: 23350 (72%), 23370 (17%), 23331 (11%)

AVERAGE GRADE: 4.6

AMOUNT OF SUPERVISION: 28% SUPERVISE AN AVERAGE OF 3 AMN

AVERAGE NUMBER OF TASKS PERFORMED: 87

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TIME SPENT ON DUTIES:

DUTY	SPENT BY ALL MEMBERS
	OF ENT DE MEET TEMBERS
R EXPOSING, PROCESSING, AND FINISHING COLOR PRINTS MAN	NUALLY 27
N PROCESSING COLOR FILM MANUALLY	14
J PROCESSING COLOR MATERIALS BY CONTINUOUS METHODS	9
Q EXPOSING FILM	8
O EXPOSING, PROCESSING, AND FINISHING BW PRINTS MANUAL	LLY 7
H OPERATING COPY CAMERAS	7

AVEDACE DEDCENT TIME

TAS	<u>KS</u>	PERCENT MEMBERS PERFORMING
N2	CONTROL COLOR FILM SOLUTION TEMPERATURE DURING MANUAL	
	PROCESSING	100
N3	DRY MANUALLY PROCESSED COLOR FILMS	100
R2	COMPOSE, FOCUS, AND EXPOSE COLOR PRINTS	95
R17	PROCESS COLOR PRINTS MANUALLY	95
R10	FINISH MANUALLY PROCESSED COLOR PRINTS	90

GROUP ID NUMBER AND TITLE: GRPO60 - CONTINUOUS COLOR PHOTOPROCESSING SPECIALIST

PERCENT OF SAMPLE: 7%

MAJOR COMMAND DISTRIBUTION: TAC (37%), MAC (27%), ATC (8%), PACAF (6%),

OTHERS (22%)

LOCATION: CONUS (92%)

SEX GROUP: MALE (89%), FEMALE (11%)

DAFSC DISTRIBUTION: 23350 (84%), 23370 (16%)

AVERAGE GRADE: 4.2

AMOUNT OF SUPERVISION: 20% SUPERVISE AN AVERAGE OF 2 AMN

AVERAGE NUMBER OF TASKS PERFORMED: 88

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TIME SPENT ON DUTIES:

		AVERA	SE PERCE	NI IIME
DU.	TY	SPENT	BY ALL	<b>MEMBERS</b>
J	PROCESSING COLOR MATERIALS BY CONTINUOUS METHODS		71	
I	PROCESSING BLACK AND WHITE MATERIALS BY CONTINUOUS METHO	ODS	5	
W	PRODUCING CHEMICAL MIXES AND PERFORMING CHEMICAL ANALYS	IS	5	

TASKS	PERCENT MEMBERS PERFORMING
J73 TURN ON COLOR PROCESSOR MAIN DRIVE	100
J75 TURN ON COLOR PROCESSOR WATER SUPPLY	100
J69 TURN ON CHEMICAL REPLENISHMENT FOR COLOR PROCESSORS	98
J47 SET OR MAINTAIN COLOR PROCESSOR TRANSPORT SPEED	94
J72 TURN ON COLOR PROCESSOR DRYER HEATERS	90

GROUP ID NUMBER AND TITLE: GRP064 - FIXED FACILITY FILM PROCESSING SUPERVISOR

PERCENT OF SAMPLE: 8%

MAJOR COMMAND DISTRIBUTION: TAC (40%), USAFE (18%), PACAF (11%), SAC (9%), MAC (7%), HQ USAF (7%), OTHERS (8%)

LOCATION: CONUS (67%)

SEX GROUP: MALE (100%)

DAFSC DISTRIBUTION: 23350 (13%), 23370 (36%), 23331 (2%), 23371 (14%),

23391 (35%)

AVERAGE GRADE: 7.0

AMOUNT OF SUPERVISION: 89% SUPERVISE AN AVERAGE OF 4 AMN

AVERAGE NUMBER OF TASKS PERFORMED: 58

TIME SPENT ON DUTIES:

DUTY	AVERAGE PERCENT TIME SPENT BY ALL MEMBERS
B DIRECTING AND IMPLEMENTING A ORGANIZING AND PLANNING C EVALUATING D TRAINING	42 19 14 9

TASK	<u>S</u>	PERCENT MEMBERS PERFORMING
B5	COUNSEL SUBORDINATES ON PERSONAL PROBLEMS	96
C9	EVALUATE PERSONNEL PERFORMANCE	89
В3	CONDUCT INSPECTIONS OR SPOT CHECKS OF PHOTOGRAPHIC	
	PRODUCTION METHODS	85
A26	PLAN WORK SCHEDULES OR PRIORITIES	76
A5	ESTABLISH PERFORMANCE STANDARDS	67
A1	CONSTRUCT ORGANIZATION OR FUNCTIONAL CHARTS	60

GROUP ID NUMBER AND TITLE: GRPO81 - MOBILE FACILITY FILM PROCESSING SUPERVISOR

PERCENT OF SAMPLE: 2%

MAJOR COMMAND DISTRIBUTION: TAC (69%), USAFE (23%), MAC (8%)

LOCATION: CONUS (77%)

SEX GROUP: MALE (100%)

DAFSC DISTRIBUTION: 23350 (38%), 23370 (46%), 23371 (16%)

AVERAGE GRADE: 5.8

AMOUNT OF SUPERVISION: 92% SUPERVISE AN AVERAGE OF 5 AMN

AVERAGE NUMBER OF TASKS PERFORMED: 55

TIME SPENT ON DUTIES:

DUTY	AVERAGE PERCENT TIME SPENT BY ALL MEMBERS
B DIRECTING AND IMPLEMENTING G MAINTAINING RELOCATABLE PHOTOGRAPHIC FACILITIES D TRAINING C EVALUATING A ORGANIZING AND PLANNING	40 18 13 7 7

### SIX REPRESENTATIVE TASKS:

TASKS	PERCENT MEMBERS PERFORMING
A25 PLAN WORK ASSIGNMENTS	85
B56 SUPERVISE FILM PROCESSING SECTIONS	85
B23 DIRECT PROCESSING MACHINE CREWS	77
G15 LEVEL SHELTERS	62
G21 POSITION SHELTERS ON SITE	62
G12 INSPECT SHELTERS AND PASSAGEWAYS FOR WEATHER AND	
LIGHT SEALS	58

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GROUP ID NUMBER AND TITLE: GRP072 - FILM PROCESSING AND CONTROL INSTRUCTOR

PERCENT OF SAMPLE: 2%

MAJOR COMMAND DISTRIBUTION: USAFE (54%), TAC (23%), ATC (23%)

LOCATION: CONUS (77%)

SEX GROUP: MALE (100%)

DAFSC DISTRIBUTION: 23350 (15%), 23370 (31%), 23331 (8%), 23371 (46%)

AVERAGE GRADE: 5.8

AMOUNT OF SUPERVISION: 31% SUPERVISE AN AVERAGE OF 2 AMN

AVERAGE NUMBER OF TASKS PERFORMED: 40

TIME SPENT ON DUTIES:

DUTY	SPENT BY ALL MEMBERS
D TRAINING B DIRECTING AND IMPLEMENTING C EVALUATING	49 27 7

#### FIVE REPRESENTATIVE TASKS:

TASKS	PERCENT MEMBERS PERFORMING
D29 PREPARE TRAINING MATERIALS D3 BRIEF PERSONNEL ON CHANGES IN METHODS OR PROCEDURES D17 EVALUATE LESSON PLANS D8 DEMONSTRATE OPERATION OF EQUIPMENT D21 PERFORM AS CLASSROOM INSTRUCTOR	92 85 85 77 77

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GROUP ID NUMBER AND TITLE: GRP050 - PRODUCTION CONTROL SPECIALIST

PERCENT OF SAMPLE: 1%

MAJOR COMMAND DISTRIBUTION: USAFE (30%), PACAF (30%), TAC (20%), SAC (10%),

HQ USAF (10%)

LOCATION: OSEAS (60%)

SEX GROUP: MALE (80%), FEMALE (20%)

DAFSC DISTRIBUTION: 23350 (60%), 23370 (30%), 23371 (10%)

AVERAGE GRADE: 5.0

AMOUNT OF SUPERVISION: 30% SUPERVISE AN AVERAGE OF 3 AMN

AVERAGE NUMBER OF TASKS PERFORMED: 17

TIME SPENT ON DUTIES:

DUTY	SPENT BY ALL MEMBERS
F PERFORMING LABORATORY PRODUCTION CONTROL FUNCTIONS B DIRECTING AND IMPLEMENTING A ORGANIZING AND PLANNING	52 25 8

TASK	<u>S</u>	PERCENT MEMBERS PERFORMING
F1	ASSIGN WORK ORDER PRIORITIES	100
F6	LOG IN WORK ORDERS OR COMPLETED WORK	100
F10	POST WORK ORDER STATUS BOARDS	80
B46		70
F3	DETERMINE ADEQUACY OF WORK FLOW OR WORK ORDER STATUS	
	FOR LABORATORIES	70

GROUP ID NUMBER AND TITLE: GRPO40 - MOBILE FACILITY MONITOR

PERCENT OF SAMPLE: 2%

MAJOR COMMAND DISTRIBUTION: TAC (67%), USAFE (20%), ATC (7%), OTHER (6%)

LOCATION: CONUS (67%)

SEX GROUP: MALE (87%), FEMALE (13%)

DAFSC DISTRIBUTION: 23350 (93%), 23330 (7%)

AVERAGE GRADE: 4.2

AMOUNT OF SUPERVISION: 27% SUPERVISE AN AVERAGE OF 2.75 AMN

AVERAGE NUMBER OF TASKS PERFORMED: 37

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TIME SPENT ON DUTIES:

DUTY	AVERAGE PERCENT TIME SPENT BY ALL MEMBERS
G MAINTAINING RELOCATABLE PHOTOGRAPHIC FACILITIES F PERFORMING LABORATORY PRODUCTION CONTROL FUNCTIONS B DIRECTING AND IMPLEMENTING	60 13 10

TASKS	PERFORMING
G5 CLEAN SHELTERS G11 FOLD OR UNFOLD SHELTERS G20 PERFORM SHELTER CORROSION CONTROL PROCEDURES G35 PREPARE SHELTER PASSAGEWAYS FOR USE OR TRANSPORT B46 PREPARE WORK ORDER REQUESTS F12 PREPARE PRODUCTION REPORTS	100 100 93 87 73 47

GROUP ID NUMBER AND TITLE: GRP041 - MOTION PICTURE ASSEMBLER

PERCENT OF SAMPLE: 2%

MAJOR COMMAND DISTRIBUTION: MAC (64%), AFSC (18%), AFCS (9%), OTHER (9%)

LOCATION: CONUS (91%)

SEX GROUP: MALE (82%), FEMALE (18%)

DAFSC DISTRIBUTION: 23350 (82%), 23330 (9%), 23370 (9%)

AVERAGE GRADE: 3.91

AMOUNT OF SUPERVISION: 27% SUPERVISE AN AVERAGE OF 2 AMN

AVERAGE NUMBER OF TASKS PERFORMED: 23

TIME SPENT ON DUTIES:

DUTY	SPENT BY ALL MEMBERS
S EDITING AND CLEANING PROCESSED IMAGERY	59
B DIRECTING AND IMPLEMENTING	13
F PERFORMING LABORATORY PRODUCTION CONTROL FUNCTIONS	12

TASK	<u>s</u>	PERCENT MEMBERS PERFORMING
S14	PLACE IDENTIFICATION LABELS ON FILM REELS OR FILM CANS	100
S17 S6	TRANSPORT COMPLETED MATERIALS TO OPERATIONS OR SHIPPING CLEAN MOTION PICTURE MATERIALS USING PLUSH CLOTHS	6 91 82
S16	SPLICE HEAD AND TAIL FRISKETS OR LEADERS ONTO ORIGINAL	02
S2	FILM ASSEMBLE A AND B ROLLS	55
32	ASSEMBLE A AND B RULLS	46

GROUP ID NUMBER AND TITLE: GRP161 - MAC MOTION PICTURE PRINT SPECIALIST

PERCENT OF SAMPLE: 1%

MAJOR COMMAND DISTRIBUTION: MAC (100%)

LOCATION: CONUS (100%)

SEX GROUP: MALE (83%), FEMALE (17%)

DAFSC DISTRIBUTION: 23350 (83%), 23370 (17%)

AVERAGE GRADE: 4.67

AMOUNT OF SUPERVISION: 17% SUPERVISE AN AVERAGE OF 6 AMN

AVERAGE NUMBER OF TASKS PERFORMED: 32

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TIME SPENT ON DUTIES:

DU	TY	SPENT BY ALL MEMBERS
	PRINTING COLOR MATERIALS BY CONTINUOUS METHODS	41
	PRINTING BLACK AND WHITE MATERIALS BY CONTINUOUS METHO	DS 25
В	DIRECTING AND IMPLEMENTING	9
S	EDITING AND CLEANING PROCESSED IMAGERY	6

TASK		PERCENT MEMBERS PERFORMING
L14	PRINT COLOR DUPLICATES USING CONTINUOUS PRINTERS	100
L27	TURN ON COLOR CONTINUOUS PRINTERS	100
S7	CLEAN MOTION PICTURE MATERIALS USING ULTRASONIC CLEANER	S 100
K13	PRINT BW DUPLICATES USING CONTINUOUS PRINTERS	83
K12	PERFORM BW A AND B ROLL FILM PRINTING FUNCTIONS	67
L15	PRINT COLOR TO BW USING CONTINUOUS PRINTERS	50